

# Service Manual

**Panasonic MII***Simplified*

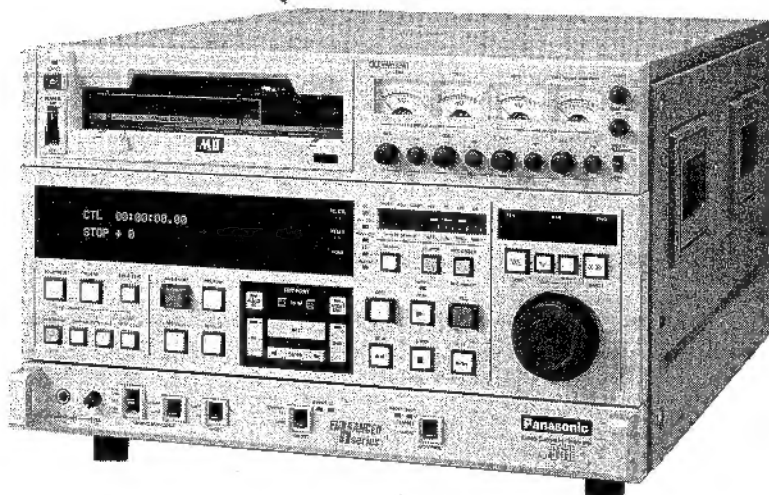
**Comparison Chart**  
**Operating Instructions**  
**Technical Descriptions**  
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**Block Diagrams**  
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**Printed Circuit Board Diagrams**  
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STUDIO VTR  
**AU-65H**

STUDIO PLAYER  
**AU-63H**

STUDIO PLAYER  
**AU-62H**

Please file and use this manual together with the service manual for Model No. AU-65, 63 and 62,  
Order No. VQS0264-1.

**PAL****Panasonic**

## 1. COMPARISON CHART

This chart is described different part from the basic model AU-65, AU-63 and AU-62 to the new model AU-65H, AU-63H and AU-62H.

### Mechanical Replacement Parts 《AU-65HE/B》

(A).....Added, (C).....Changed, (D).....Deleted

| Ref No. | AU-65-E/B<br>Part No. | AU-65HE/B<br>Part No. | Pcs/Set | Part Name & Description                  | Remarks                          |
|---------|-----------------------|-----------------------|---------|--|----------------------------------|
| 1       | VYP2975               | VYP4151               | 1       | UPPER FRONT PANEL (1) UNIT               | (C)FRONT PANEL ASSEMBLY          |
| 3       | VXU0766               | VXU0766               | 2 → 4   | VR KNOB (B)                              | (C)FRONT PANEL ASSEMBLY          |
| 9       | VSE0101               | VSE0101               | 2 → 3   | AUDIO METER                              | (C)FRONT PANEL ASSEMBLY          |
| 10      | VSE0109               | VSE0103               | 1       | TRACKING METER                           | (C)FRONT PANEL ASSEMBLY          |
| 12      | VGU2085               | VGU3388               | 1       | SWITCH KNOB                              | (C)FRONT PANEL ASSEMBLY          |
| 20      | VMZ1160               | VGP3137               | 1       | FRONT BOARD COVER                        | (C)FRONT PANEL ASSEMBLY          |
| 23      | —                     | VXU0769               | 0 → 1   | TRACKING VR KNOB                         | (A)FRONT PANEL ASSEMBLY          |
| 31      | VYP2977               | VYP4047               | 1       | CONTROL PANEL (1) UNIT                   | (C)FRONT PANEL ASSEMBLY          |
| 1       | VGH2284               | VGH3039               | 1       | JACK NAME PLATE (UPPER)                  | (C)REAR JACK PANEL ASSEMBLY      |
| 15      | VJS2614               | VJS2525               | 1       | XLR CONNECTOR (4 PCS)                    | (C)REAR JACK PANEL ASSEMBLY      |
| 17      | VGH2551               | VGH3045               | 1       | JACK NAME PLATE (LOWER)                  | (C)REAR JACK PANEL ASSEMBLY      |
| 19      | VMP2613               | —                     | 1 → 0   | B BOARD COVER                            | (D)CHASSIS FRAME ASSEMBLY        |
| 23      | VMP2608               | VMP3676               | 1       | CENTER FRAME                             | (C)CHASSIS FRAME ASSEMBLY        |
| 31      | VGH2549               | VGH3041               | 1       | SUB FRONT PANEL                          | (C)CHASSIS FRAME ASSEMBLY        |
| 33      | —                     | VMP2739               | 0 → 1   | SENC & P IN P BOARD MOUNT ANGLE (BOTTOM) | (A)CHASSIS FRAME ASSEMBLY        |
| 60      | —                     | VMP3668               | 0 → 1   | W BOARD HOLD ANGLE                       | (A)CHASSIS FRAME ASSEMBLY        |
| 85      | XTV3+6F               | —                     | 72 → 70 | SCREW                                    | (D)CHASSIS FRAME ASSEMBLY        |
| 100     | —                     | VMP2738               | 0 → 1   | SENC & P IN P HOLDER ANGLE               | (A)CHASSIS FRAME ASSEMBLY        |
| 110     | —                     | XTV3+8F               | 0 → 1   | SCREW                                    | (A)CHASSIS FRAME ASSEMBLY        |
| 111     | —                     | VSC3486               | 0 → 1   | SHIELD BOX                               | (A)CHASSIS FRAME ASSEMBLY        |
| 11      | VJA0561               | VJA0716               | 1       | 9P CABLE                                 | (C)PACKING                       |
| 12      | VFK0600               | —                     | 1 → 0   | EXTENSION BOARD (W)                      | (D)PACKING                       |
| 13      | VQT4017               | —                     | 1 → 0   | OPERATING INSTRUCTIONS (ENGLISH)         | (D)PACKING (FOR AU-65E/AU-65B)   |
| 13      | VQT4137               | —                     | 1 → 0   | OPERATING INSTRUCTIONS (GERMAN)          | (D)PACKING (FOR AU-65E)          |
| 13      | VQT4138               | —                     | 1 → 0   | OPERATING INSTRUCTIONS (FRENCH)          | (D)PACKING (FOR AU-65E)          |
| 13      | VQT4139               | —                     | 1 → 0   | OPERATING INSTRUCTIONS (SPANISH)         | (D)PACKING (FOR AU-65E)          |
| 13      | —                     | VQT4633               | 0 → 1   | OPERATING INSTRUCTIONS (ENGLISH)         | (A)PACKING (FOR AU-65HE/AU-65HB) |
| 13      | —                     | VQT4655               | 0 → 1   | OPERATING INSTRUCTIONS (GERMAN)          | (A)PACKING (FOR AU-65HE)         |
| 13      | —                     | VQT4586               | 0 → 1   | OPERATING INSTRUCTIONS (FRENCH)          | (A)PACKING (FOR AU-65HE)         |
| 13      | —                     | VQT4656               | 0 → 1   | OPERATING INSTRUCTIONS (SPANISH)         | (A)PACKING (FOR AU-65HE)         |

### 《AU-63HE/B》

(A).....Added, (C).....Changed, (D).....Deleted

| Ref No. | AU-63-E/B<br>Part No. | AU-63HE/B<br>Part No. | Pcs/Set | Part Name & Description          | Remarks                            |
|---------|-----------------------|-----------------------|---------|----------------------------------|------------------------------------|
| 31      | VYP3145               | VYP4049               | 1       | CONTROL PANEL (1) UNIT           | (C)FRONT PANEL ASSEMBLY            |
| 1       | VGH2389               | VGH3088               | 1       | JACK NAME PLATE (UPPER)          | (C)REAR JACK PANEL ASSEMBLY        |
| 17      | VGH2551               | VGH3045               | 1       | JACK NAME PLATE (LOWER)          | (C)REAR JACK PANEL ASSEMBLY        |
| 19      | VMP2613               | —                     | 1 → 0   | B BOARD COVER                    | (D)CHASSIS FRAME ASSEMBLY          |
| 60      | —                     | VMP3668               | 0 → 1   | W BOARD HOLD ANGLE               | (A)CHASSIS FRAME ASSEMBLY          |
| 110     | —                     | XTV3+8F               | 0 → 1   | SCREW                            | (A)CHASSIS FRAME ASSEMBLY          |
| 11      | VJA0561               | VJA0716               | 1       | 9P CABLE                         | (C)PACKING                         |
| 12      | VFK0600               | —                     | 1 → 0   | EXTENSION BOARD (W)              | (D)PACKING                         |
| 13      | VQT4018               | —                     | 1 → 0   | OPERATING INSTRUCTIONS (ENGLISH) | (D)PACKING (FOR AU-63E/B, 62E/B)   |
| 13      | VQT4134               | —                     | 1 → 0   | OPERATING INSTRUCTIONS (GERMAN)  | (D)PACKING (FOR AU-63E/62E)        |
| 13      | VQT4135               | —                     | 1 → 0   | OPERATING INSTRUCTIONS (FRENCH)  | (D)PACKING (FOR AU-63E/62E)        |
| 13      | VQT4136               | —                     | 1 → 0   | OPERATING INSTRUCTIONS (SPANISH) | (D)PACKING (FOR AU-63E/62E)        |
| 13      | —                     | VQT4641               | 0 → 1   | OPERATING INSTRUCTIONS (ENGLISH) | (A)PACKING (FOR AU-63HE/B, 62HE/B) |
| 13      | —                     | VQT4642               | 0 → 1   | OPERATING INSTRUCTIONS (GERMAN)  | (A)PACKING (FOR AU-63HE/62HE)      |
| 13      | —                     | VQT4587               | 0 → 1   | OPERATING INSTRUCTIONS (FRENCH)  | (A)PACKING (FOR AU-63HE/62HE)      |
| 13      | —                     | VQT4658               | 0 → 1   | OPERATING INSTRUCTIONS (SPANISH) | (A)PACKING (FOR AU-63HE/62HE)      |



# **《AU-62HE/B》**

(A).....Added, (C).....Changed, (D).....Deleted

| Ref No. | AU-62-E/B<br>Part No. | AU-62HE/B<br>Part No. | Pcs/Set | Part Name & Description          | Remarks                             |
|---------|-----------------------|-----------------------|---------|----------------------------------|-------------------------------------|
| 31      | VYP3136               | VYP4048               | 1       | CONTROL PANEL (1) UNIT           | (C) FRONT PANEL ASSEMBLY            |
| 1       | VGH2389               | VGH3088               | 1       | JACK NAME PLATE (UPPER)          | (C) REAR JACK PANEL ASSEMBLY        |
| 17      | VGH2551               | VGH3045               | 1       | JACK NAME PLATE (LOWER)          | (C) REAR JACK PANEL ASSEMBLY        |
| 19      | VMP2613               | _____                 | 1 → 0   | B BOARD COVER                    | (D) CHASSIS FRAME ASSEMBLY          |
| 60      | _____                 | VMP3668               | 0 → 1   | W BOARD HOLD ANGLE               | (A) CHASSIS FRAME ASSEMBLY          |
| 110     | _____                 | XTV3+8F               | 0 → 1   | SCREW                            | (A) CHASSIS FRAME ASSEMBLY          |
| 11      | VJA0561               | VJA0716               | 1       | 9P CABLE                         | (C) PACKING                         |
| 12      | VFK0600               | _____                 | 1 → 0   | EXTENSION BOARD (W)              | (D) PACKING                         |
| 13      | VQT4018               | _____                 | 1 → 0   | OPERATING INSTRUCTIONS (ENGLISH) | (D) PACKING (FOR AU-63E/B, 62E/B)   |
| 13      | VQT4134               | _____                 | 1 → 0   | OPERATING INSTRUCTIONS (GERMAN)  | (D) PACKING (FOR AU-63E/62E)        |
| 13      | VQT4135               | _____                 | 1 → 0   | OPERATING INSTRUCTIONS (FRENCH)  | (D) PACKING (FOR AU-63E/62E)        |
| 13      | VQT4136               | _____                 | 1 → 0   | OPERATING INSTRUCTIONS (SPANISH) | (D) PACKING (FOR AU-63E/62E)        |
| 13      | _____                 | VQT4641               | 0 → 1   | OPERATING INSTRUCTIONS (ENGLISH) | (A) PACKING (FOR AU-63HE/B, 62HE/B) |
| 13      | _____                 | VQT4642               | 0 → 1   | OPERATING INSTRUCTIONS (GERMAN)  | (A) PACKING (FOR AU-63HE/62HE)      |
| 13      | _____                 | VQT4587               | 0 → 1   | OPERATING INSTRUCTIONS (FRENCH)  | (A) PACKING (FOR AU-63HE/62HE)      |
| 13      | _____                 | VQT4658               | 0 → 1   | OPERATING INSTRUCTIONS (SPANISH) | (A) PACKING (FOR AU-63HE/62HE)      |

## **Electrical Replacement Parts**

# **《AU-65HE/B》**

(A).....Added, (C).....Changed, (D).....Deleted

| Ref No. | AU-65-E/B<br>Part No. | AU-65HE/B<br>Part No. | Pcs/Set | Part Name & Description  | Remarks |
|---------|-----------------------|-----------------------|---------|--------------------------|---------|
|         | VEP80548A             | VEP80765A             | 1       | W0 MOTHER 1 P.C.B.       | (C)     |
|         | VEP88062C             | VEP88091C             | 1       | W1 TBC & SYNC GEN P.C.B. | (C)     |
|         | VEP88063C             | VEP88063M             | 1       | W2 ENCODER P.C.B.        | (C)     |
|         | VEP83099B             | VEP83173A             | 1       | W4 DECODER P.C.B.        | (C)     |
|         | VEP84095D             | VEP84095K             | 1       | W6 AUDIO P.C.B.          | (C)     |
|         | VEP80549A             | VEP80549H             | 1       | B0 MOTHER 2 P.C.B.       | (C)     |
|         | VEP86088E             | VEP86121D             | 1       | B1 SYSTEM CONTROL P.C.B. | (C)     |
|         | VEP84094A             | VEP84094G             | 1       | AUDIO I/O P.C.B.         | (C)     |
|         | VEP80631A             | VEP80631D             | 1       | FRONT INTERFACE P.C.B.   | (C)     |
|         | VEP86050D             | VEP86107B             | 1       | FRONT PANEL A P.C.B.     | (C)     |
|         | VEP66022A             | VEP86108D             | 1       | FRONT PANEL B P.C.B.     | (C)     |
|         | VEP86048G             | _____                 | 1 → 0   | FRONT PANEL C P.C.B.     | (D)     |
|         | _____                 | VEP80083B             | 0 → 1   | METER CHANGE SW P.C.B.   | (A)     |
|         | VEP80333B             | VEP80333C             | 1       | METHER LAMP P.C.B.       | (C)     |
|         | _____                 | VEP83170B             | 0 → 1   | SENC & P IN P P.C.B.     | (A)     |
|         | VEP83097C             | VEP83174C             | 1       | VIDEO I/O P.C.B.         | (C)     |
| ※1      | _____                 | VEP86089C             | 0 → 1   | B2 TCG/TCR P.C.B.        | (A)     |

# 《AU-63HE/B》

(A).....Added, (C).....Changed, (D).....Deleted

| Ref No. | AU-63-E/B<br>Part No. | AU-63HE/B<br>Part No. | Pcs/Set | Part Name & Description  | Remarks |
|---------|-----------------------|-----------------------|---------|--------------------------|---------|
| ※1      | VEP80548D             | VEP80765C             | 1       | W0 MOTHER 1 P.C.B.       | (C)     |
|         | VEP88062C             | VEP88091C             | 1       | W1 TBC & SYNC GEN P.C.B. | (C)     |
|         | VEP88063D             | VEP88063N             | 1       | W2 ENCODER P.C.B.        | (C)     |
|         | VEP80549B             | VEP80549K             | 1       | B0 MOTHER 2 P.C.B.       | (C)     |
|         | VEP86088F             | VEP86121F             | 1       | B1 SYSTEM CONTROL P.C.B. | (C)     |
|         | VEP86076D             | VEP86076F             | 1       | FRONT PANEL B P.C.B.     | (C)     |
|         | VEP83097B             | VEP83174B             | 1       | VIDEO I/O P.C.B.         | (C)     |
|         |                       | VEP86089C             | 0 → 1   | B2 TCG/TCR P.C.B.        | (A)     |

# 《AU-62HE/B》

(A).....Added, (C).....Changed, (D).....Deleted

| Ref No. | AU-62-E/B<br>Part No. | AU-62HE/B<br>Part No. | Pcs/Set | Part Name & Description  | Remarks |
|---------|-----------------------|-----------------------|---------|--------------------------|---------|
| ※1      | VEP80548C             | VFP80765B             | 1       | W0 MOTHER 1 P.C.B.       | (C)     |
|         | VEP88062C             | VEP88091C             | 1       | W1 TBC & SYNC GEN P.C.B. | (C)     |
|         | VEP88063C             | VEP88063Q             | 1       | W2 ENCODER P.C.B.        | (C)     |
|         | VEP80549A             | VEP80549J             | 1       | B0 MOTHER 2 P.C.B.       | (C)     |
|         | VEP86088M             | VEP86121E             | 1       | B1 SYSTEM CONTROL P.C.B. | (C)     |
|         | VEP86076D             | VEP86076F             | 1       | FRONT PANEL B P.C.B.     | (C)     |
|         | VEP83097B             | VEP83174B             | 1       | VIDEO I/O P.C.B.         | (C)     |
|         |                       | VEP86089C             | 0 → 1   | B2 TCG/TCR P.C.B.        | (A)     |

- ※1. The AU-62H has been installed with a Time code generator/reader (B2 Board) in standard accessory.  
The B2 Time code generator/reader (VEP86089C) is common to AU-F65 (Optional Time code generator/reader). Therefore please refer to the descriptions which are shown in AU-F65 Service Manual (VQS0264-1).

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# 1. Features

## High quality pictures

The MII series VTR developed for production/broadcast purposes ensures high quality pictures, comparable to those of 1" tape, by using 1/2" metal tape.

## Extended recording time (AU-65H)

A recording of up to 95 min. is possible, using 1/2" metal tape. A small, 20-minute cassette can also be used without an adaptor.

## Built-in 3-dimensional digital TBC

The unit contains a 3-dimensional digital TBC equipped with field memory so that stable playback pictures with minimal jitter can be obtained.

## Freeze function

The adoption of 3-dimensional digital TBC made it possible to view noise-free still pictures (freeze frame).

## P IN P (picture-in-picture) function (AU-65H)

This function enables a viewer to monitor playback signals and input signals on the same screen at the same time.

## Color framing

This unit's ability to control color framing in a 4-field sequence assures optimum picture quality in composite signal editing, recording and playback. Sub-carrier phase can be adjusted in relation to the input reference signal. CF, REF and INPUT SCH LED indicators are provided to indicate their functions.

## Editing functions (AU-65H)

The unit features auto/manual editing in assemble and insert modes (with two units). Individual/composition editing is possible in VIDEO-FM, AUDIO CH1/CH2, and TIME CODE modes. Time code editing can also be performed.

## Variable memory editing\* (AU-63H and AU-65H combination)

In the variable mode, the operating conditions (tape direction and speed change) within the range extending from normal speed in reverse (-1x) to twice normal speed forward (2x) can be entered and played back.

\*Be sure that this unit does not use an Auto Tracking Control, in order to avoid creating noise on the screen. This function may be convenient, however, when the unit is used as the recorder VTR and controls the player VTR having the Auto Tracking.

## Audio split editing (AU-65H)

It is possible to enter the audio edit point separate from video, and audio edit can be individually performed with its edit point deflected from the video edit point.

## Setting of editing points (AU-65H)

Editing points can be readily set by the shuttle, jog and variable functions. Tape travels at speeds ranging from still to  $\pm 16\times$  (setting available to  $32\times$ ) in the shuttle mode,  $-1\times$  to  $+2\times$  in the jog mode, and  $-1\times$  to  $+2\times$  in the variable mode.

## Tape speed override (TSO)

This function enables the tape speed to be manually adjusted in 1% increments up to 15% faster or slower than the normal playback speed.

Tape speed override is presettable from the internal switch.

## Amorphous heads

This unit is equipped with amorphous video heads designed to match the magnetic characteristics of the metal tape used by MII system VTRs. Together, they greatly improve high frequency response and decrease the eddy current loss.

## 4-channel audio\*

The unit's audio is a 4 channel design with two channels of linear audio and two channels of high quality FM sound. Audio Mixing Output connector serves mixed sound of CH1 or CH2 audio and CH3 or CH4 audio.

The Dolby® C Noise Reduction System is provided for the linear channels.


## Built-in time code generator/reader (TCG/TCR)

This unit comes with a time code generator and time code reader.

## Setup operation viewing the display menu

Before operating the VTR, you can set up the unit viewing the display menu on the TV Monitor.

\*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

\*\*\*DOLBY® and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

**Large character display**

The display is 32 characters by 2 lines. Information is displayed concerning the status of the VTR such as, tape time, editing data, speed data and error messages.

**Shuttle search at up to 32 times normal speed plus jog search**

The shuttle mode allows high-speed access at a maximum of 16 times (setting available to 32 times) normal speed in both forward and reverse direction. The jog mode allows speed change from  $-1\times$  to  $2\times$  times normal speed. The operation conditions are displayed in large size characters on the display for enhanced operation convenience.

**Machine-to-machine synchronization and sync roll**

This unit provides easy synchronization between two VTRs. When used with the optional Editing Controller (AG-A800), this bridge-through connection allows sync roll with simple connections.

**Automatic standard/non-standard selection (AU-65H)**

This unit automatically detects whether the input signal is RS-170A standard signal or non-standard.

**Tape remaining and lap time indication**

Tape remaining and edit duration time are indicated by digit, making it easy to see how much tape remains and to check the duration time of the IN/OUT point.

**Encoder remote**

The built-in encoder is controllable using the encoder remote connector (15P), provided on the rear panel.

**Serial (9P) remote**

This unit is equipped with serial (9P) remote interface. When editing with two VTR units, the player can be remotely controlled from the recorder using the serial 9P cable connection.

**Parallel (50P) remote**

When the optional parallel (50P) remote connector is used, remote control can be performed from a distance by parallel remote mode.

**Superimpose**

The data in a tape position and the VTR operation mode can be imposed on the television screen.

**Component input/output connectors**

(Input connector: AU-65H)

Component input/output connectors are provided for interface with other equipment at the component signal level.

**YC input and output connectors (for wide screen)**

(Input connector: AU-65H)

YC input and output connectors have been provided to enable interfacing with other equipment using the YC signals.

There is also a function which automatically identifies whether the video signals for a regular NTSC size screen (aspect ratio of 3:4) or video signals for a wide size screen (aspect ratio of 9:16) are input to, or output from, these connectors.

**Recorder inhibit (AU-65H)**

Individual record inhibits are provided for Video, Linear Audio and Time Code. With the switches ON, both recording and editing are inhibited.

**Rack mount**

The AU-65H/63H/62H can be mounted in a standard EIA 19" rack.



# Specifications on AU-65H

|                    |                        |
|--------------------|------------------------|
| Power Supply:      | 220-240 V AC, 50-60 Hz |
| Power Consumption: | 180 W                  |

|                        |   |
|------------------------|---|
| Recording System:      | MII format, 4 rotary heads, 2-track<br>helical scanning |
| Tape Speed:            | 66.295 mm/sec   |
| Tape:                  | 1/2-inch metal particle tape                            |
| Recording Time:        | 97 minutes (with AU-MPL90 tape)                         |
| FF/REW Time:           | Less than 3 minutes (with AU-MPL60 tape)                |
| Operating Temperature: | 5°C to 40°C   |
| Operating Humidity:    | Under 80%   |
| Dimensions (W×H×D):    | 444×291×574 mm  |
| Weight:                | 34 kg   |

## VIDEO

|                    |   |
|--------------------|---|
| Television Format: | PAL TV system; 625 lines, 50 fields   |
| Modulation System: | Y; Frequency modulation<br>C; Time compressed multiplexing, frequency modulation (P <sub>B</sub> , P <sub>R</sub> )   |
| Bandwidth:         | Y; 25 Hz to 5.0 MHz (+1/-2 dB)<br>5.5 MHz (-3.5 dB)<br>C (P <sub>B</sub> , P <sub>R</sub> ); 25 Hz to 1.8 MHz (+1/-2 dB)<br>2.0 MHz (-3.5 dB)   |
| S/N Ratio:         | Y; Better than 47 dB<br>(200 kHz to 5 MHz)<br>C (P <sub>B</sub> , P <sub>R</sub> ); Better than 48 dB<br>C (AM); Better than 48 dB (1 kHz to 500 kHz)<br>C (PM); Better than 50 dB (1 kHz to 500 kHz) |
| K Factor:          | 2 T; Less than 2%<br>5 T; Less than 3%  |
| Y/C Delay:         | Less than 20ns  |
| Linearity:         | Less than 3%  |

## AUDIO

### Linear (CH1/CH2)

|                     |   |
|---------------------|---|
| Frequency Response: | 50 Hz to 15 kHz (+2/-3 dB)                          |
| S/N Ratio:          | Better than 56 dB (Dolby NR OFF) (at 3% distortion) |
| Distortion:         | Less than 1.0% at 1 kHz standard input level        |
| Wow and flutter:    | Less than 0.1% (DIN WTD)                            |
| Erase:              | Less than -65 dB at 1 kHz                           |

### FM (CH3/CH4)

|                     |  |
|---------------------|--|
| Frequency Response: | 20 Hz to 20 kHz (+1/-2 dB)                     |
| Dynamic Range:      | More than 85 dB (A WTD)                        |
| Distortion:         | Less than 0.5% at 1 kHz standard input level   |
| Crosstalk:          | Less than -65 dB at 1 kHz standard input level |

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## VIDEO INPUT

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|                   |  |
|-------------------|--|
| VIDEO IN:         | BNC×2, loop through with 75Ω ON/OFF switch, 1.0 Vp-p |
| REF VIDEO IN:     | BNC×2, loop through with 75Ω ON/OFF switch, 1.0 Vp-p |
| COMPONENT IN:     | BNC×3  |
|                   | Y; 1.0 Vp-p, 75Ω                                     |
|                   | PB; 0.7 Vp-p, 75Ω                                    |
|                   | PR; 0.7 Vp-p, 75Ω                                    |
| YC (S1-VIDEO) IN: | S1-VIDEO (4P)×1                                      |
|                   | Y; 1.0 Vp-p, 75Ω                                     |
|                   | C; 0.3 Vp-p (burst level), 75Ω                       |
|                   | (100% colour bars, 0% setup)                         |

## VIDEO OUTPUT

---

|                    |                                      |
|--------------------|--------------------------------------|
| VIDEO OUT:         | BNC×3                                |
|                    | OUT1; SYNC ON/OFF                    |
|                    | OUT2; COMPOSITE OUT                  |
|                    | OUT3; TC superimpose & P IN P ON/OFF |
|                    | Each output; 1.0 Vp-p, 75Ω           |
| COMPONENT OUT:     | BNC×3                                |
|                    | Y; 1.0 Vp-p, 75Ω                     |
|                    | PB; 0.7 Vp-p, 75Ω                    |
|                    | PR; 0.7 Vp-p, 75Ω                    |
| YC (S1-VIDEO) OUT: | S1-VIDEO (4P)×1                      |
|                    | Y; 1.0 Vp-p, 75Ω                     |
|                    | C; 0.3 Vp-p (burst level), 75Ω       |
|                    | (100% colour bars, 0% setup)         |

## AUDIO INPUT

---

|               |   |
|---------------|---|
| AUDIO IN:     | XLR 3P×4, CH1/CH2 (linear), CH3/CH4 (FM),<br>-20/0/+4 dBu |
|               | More than 10 kΩ/600Ω, balanced                            |
| TIME CODE IN: | BNC×1, 0.5 V to 8 Vp-p, more than 10 kΩ, unbalanced       |

## AUDIO OUTPUT

---

|                 |   |
|-----------------|---|
| AUDIO OUT:      | XLR 3P×4, CH1/CH2 (linear), CH3/CH4 (FM),<br>-20/0/+4 dBu |
|                 | Less than 50Ω, balanced                                   |
| TIME CODE OUT:  | BNC×1, 2.2 Vp-p, less than 50Ω, unbalanced                |
| MONITOR OUT:    | XLR 3P×1 (MIX), +0 dBu, less than 50Ω, balanced           |
| HEADPHONES OUT: | 6.3 mm stereo jack, -20 dBu to -∞ (variable), 8Ω          |

---

## REMOTE CONNECTORS

---

|                 |                             |
|-----------------|-----------------------------|
| ENCODER REMOTE: | 15P×1                       |
| REMOTE 2:       | 9P×2, RS-422A serial remote |

## STANDARD ACCESSORIES

---


Power cord  
Serial 9-pin cord

## OPTIONAL ACCESSORIES

---

|                                       |         |
|---------------------------------------|---------|
| REMOTE 1 (parallel remote) connector: | AU-MK25 |
|---------------------------------------|---------|

Weight and dimensions shown are approximate.  
Specifications are subject to change without notice.

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# Specifications on AU-63H/62H

## GENERAL

|                           |                             |
|---------------------------|-----------------------------|
| <b>Power supply:</b>      | 220-240 V AC, 50-60 Hz      |
| <b>Power consumption:</b> | AU-63H; 140W / AU-62H; 135W |

is the safety information.

|                                      |   |
|--------------------------------------|---|
| <b>Playback system :</b>             | MII format, 4 rotary heads, 2-track helical scanning system |
| <b>Tape :</b>                        | 1/2" Metal Particle (MP) tape                               |
| <b>Tape speed :</b>                  | 66.295 mm/sec   |
| <b>Playback time :</b>               | 97 minutes (using AU-M90L tape)                             |
| <b>FF/REW time :</b>                 | Max. 3 minutes (using AU-M60L tape)                         |
| <b>Operating temperature range :</b> | 5°C-40°C  |
| <b>Operating humidity :</b>          | Less than 80%   |
| <b>Dimensions :</b>                  | 444 (W)×291 (H)×574 (D) mm                                  |
| <b>Weight :</b>                      | 33 kg   |

## VIDEO

|                           |   |
|---------------------------|---|
| <b>Television Format:</b> | PAL with 625 lines, 50 fields   |
| <b>Modulation system:</b> | Y;<br>C;  |
|                           | Frequency modulation<br>Time base compression time division<br>Frequency modulation (P <sub>B</sub> , P <sub>N</sub> )                                    |
| <b>Bandwidth :</b>        | Y;<br>P <sub>B</sub> , P <sub>N</sub> ;   |
|                           | 25 Hz to 5.0 MHz (+1.0/-2 dB)<br>5.5 MHz (-3.5 dB)<br>25 Hz to 1.8 MHz (+1.0/-2 dB)<br>2.0 MHz (-3.5 dB)  |
| <b>S/N ratio :</b>        | Y (Component);<br>C (P <sub>B</sub> , P <sub>N</sub> );<br>C (AM, PM);  |
|                           | Better than 46 dB (AU-63)/47 dB (AU-62)<br>(200 kHz to 5 MHz, SC trap OFF)<br>Better than 48 dB (1.6 MHz LPF)<br>48 dB (AM)/50 dB (PM) (1 kHz to 500 kHz) |
| <b>K factor :</b>         | Less than 2%  |
| <b>Y/C delay :</b>        | Less than 20ns  |

## AUDIO

### Linear (CH1/CH2)

|                                    |                                      |
|------------------------------------|--------------------------------------|
| <b>Frequency response :</b>        | 50 Hz to 15 kHz (+2.0/-3 dB)         |
| <b>S/N ratio (3% distortion) :</b> | Better than 56 dB (Dolby NR OFF)     |
| <b>Distortion :</b>                | Less than 1% (1 kHz standard signal) |
| <b>Wow/flutter :</b>               | 0.1% (DIN WTD)                       |

### FM (CH3/CH4)

|                             |  |
|-----------------------------|--|
| <b>Frequency response :</b> | 20 Hz to 20 kHz (+1/-2 dB)               |
| <b>Dynamic range :</b>      | More than 80 dB                          |
| <b>Distortion :</b>         | Less than 0.5% (1 kHz standard signal)   |
| <b>Crosstalk :</b>          | Less than -65 dB (1 kHz standard signal) |

---

## VIDEO IN connectors

|                |  |
|----------------|--|
| REF VIDEO IN : | BNC×2, loop through 1.0 Vp-p ±0.3 Vp-p, 75Ω ON/OFF |
|----------------|--|

---

## VIDEO OUT connectors

|                    |  |
|--------------------|--|
| VIDEO OUT:         | BNC×3                                    |
|                    | OUT1 ; SYNC ON/OFF                       |
|                    | OUT2 ; COMPOSITE OUT                     |
|                    | OUT3 ; TC superimposing ON/OFF           |
|                    | 1.0 Vp-p ±0.05 Vp-p, 75Ω for all outputs |
| COMPONENT OUT:     | BNC×3                                    |
|                    | Y ; 1.0 Vp-p, 75Ω                        |
|                    | P <sub>B</sub> ; 0.7 Vp-p, 75Ω           |
|                    | P <sub>R</sub> ; 0.7 Vp-p, 75Ω           |
| YC (S1 VIDEO) OUT: | S1 VIDEO (4P)×1                          |
|                    | Y ; 1.0Vp-p 75Ω                          |
|                    | C ; 0.3 Vp-p (Burst Level) 75Ω           |

(100% colour bars, 0% set up)

---

## AUDIO OUT connectors

|                 |   |
|-----------------|---|
| AUDIO OUT:      | XLR 3P×4  |
|                 | CH1/CH2 (linear), CH3/CH4 (FM)                  |
|                 | −20/0/+4 dBu selectable, less than 50Ω balanced |
| TIME CODE OUT:  | BNC×1   |
|                 | 2.2 Vp-p, less than 50Ω unbalanced              |
| MONITOR OUT:    | XLR 3P×1 (MIX)                                  |
|                 | 0 dBu, less than 50Ω balanced                   |
| HEADPHONES OUT: | 1/4" phone stereo jack                          |
|                 | −20 dBu to −∞ (variable), 8Ω                    |

---

## Remote connectors

|                 |                       |
|-----------------|-----------------------|
| ENCODER REMOTE: | 15P×1                 |
| REMOTE 2:       | 9P×1                  |
|                 | RS-422A serial remote |
| (REMOTE 1):     | 50P (option)×1        |
|                 | parallel remote       |

---

## Standard accessories


|                    |   |
|--------------------|---|
| Power cord:        | 1 |
| Serial 9-pin cord: | 1 |

---

## Optional accessories

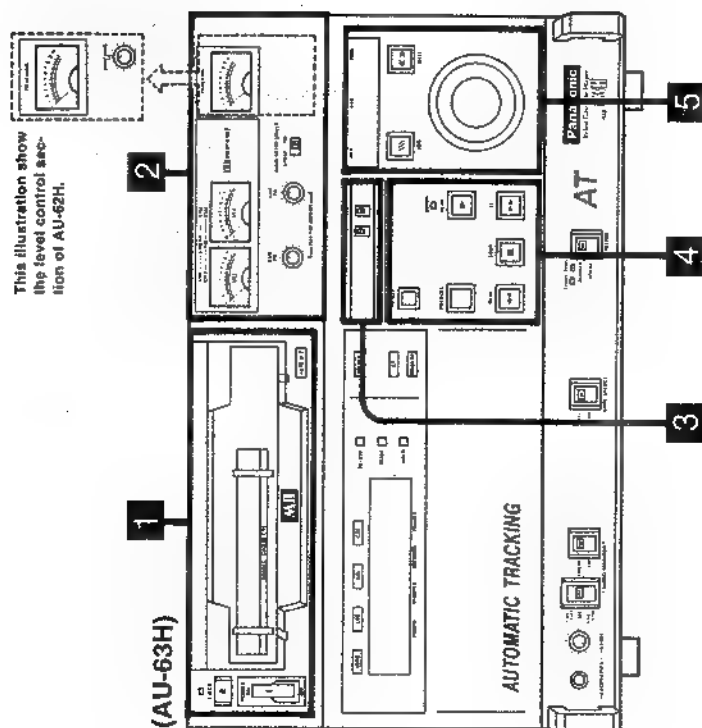
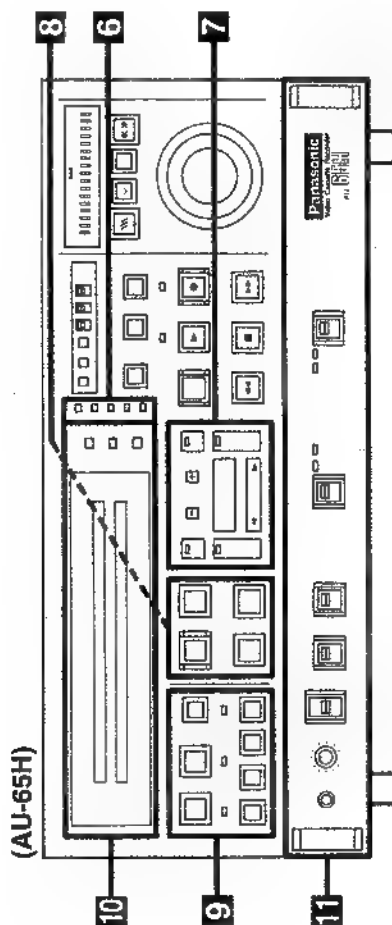
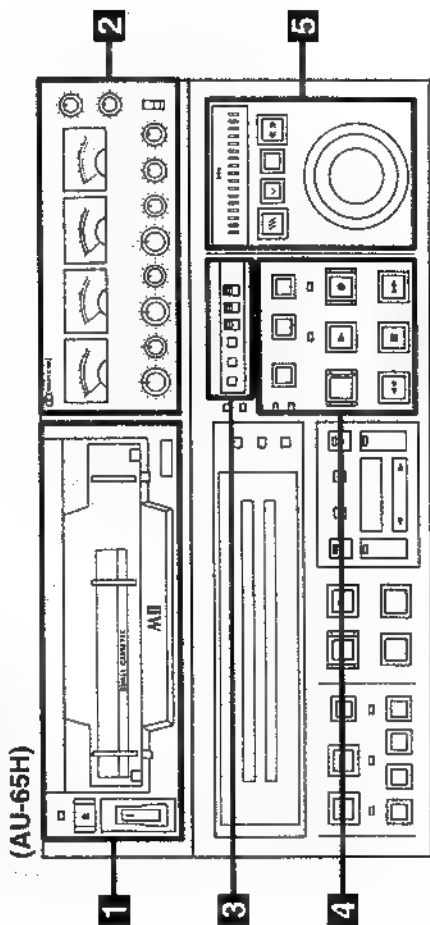
|                            |         |
|----------------------------|---------|
| Parallel remote connector: | AU-MK25 |
|----------------------------|---------|

Weight and dimensions shown are approximate.  
Specifications are subject to change without notice.

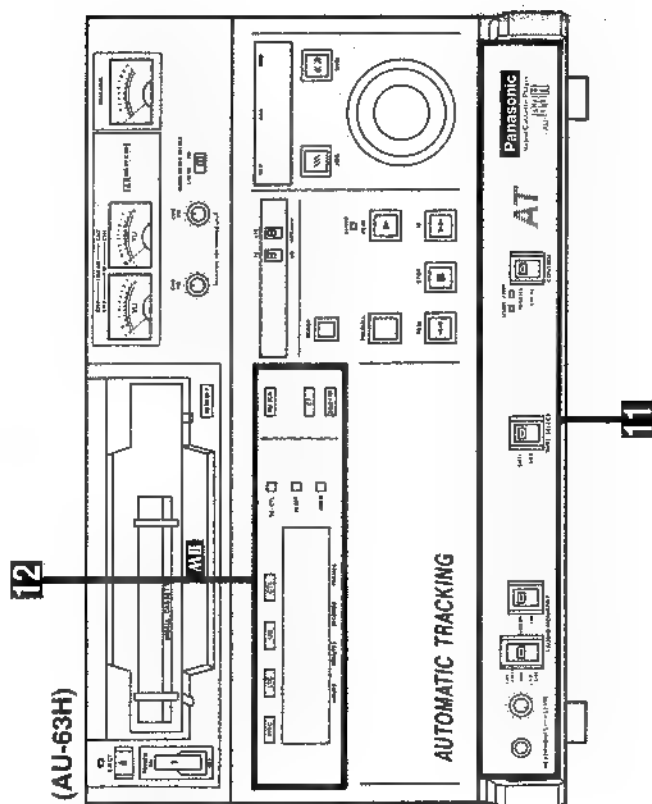
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# Front Panel



The above illustration shows the AU-63H as seen from the front.



## 1 Power, cassette area

**POWER Switch:**  
EJECT Button:  
EJECT Lamp:  
Cassette Holder:  
AUTO OFF Lamp:

Turns on the mains supply.

Ejects the tape.

Lights when a tape is ejected.

This is where the 1/2-inch metal particle tape is inserted.

This lights when there is something wrong with the unit. While it is lit, only the unit's EJECT button is functional.

### Power Supply Protection Function

The unit is equipped with a protection circuit to guard it against excess current or voltage, and against excessively low voltage. If the protection circuit is triggered by some abnormality, the unit's power is turned OFF automatically. Make sure to investigate the cause of the problem, then the unit's operation can be restored to normal again by switching the power ON.

## 2 Level control area on AU-65H

**LINEAR AUDIO CH1/CH2 Meters:**  
**FM AUDIO CH3 Meter:**  
**CH4/VIDEO, TRACKING Meter:**

Displays the linear audio (CH1/2) level.

Displays the FM audio (CH3) level.

Displays the FM audio (CH4) level and the video level or the tracking level.

Adjusts the composite video signal level.

Adjusts the tracking.

Switches between the VIDEO, TRACKING and CH4 meter indications.

### VIDEO TRACKING:

Set to this position when adjusting the composition video signal level during recording, or when adjusting the tracking during playback.

**CH4:** Set to this position when adjusting FM AUDIO CH4.

Pull out and turn to adjust the audio level. Push in to record or play back at the optimum level (preset level).

**Audio Level Control:**

## Level control section On AU-63H / 62H

**Audio level VU meters:**

For audio (linear/FM) level display.

**AUDIO METER SELECT switch:**

Selects meter (linear/FM) display.

**Audio level controls:**

Pull out the knobs to adjust the audio level. Then push them back into place for playback at the optimum level (preset level).

For tracking display.

**\*TRACKING meter:**

Adjusts tracking (AU-62H only).

## 3 Time code setting area on AU-65H

**SHIFT Button:**

Shifts the flashing part of the time code display.

**ADJ Button:**

This changes the value of the flashing part.

Press this after completing the time code settings.

**START Button:**

During time code recording, this selects whether the recording is to use the AU-F68 (option) or external time code.

**INT/EXT Switch:**

This switches between the time code and user bits display. (It works only when the TC/CTL switch has been set to the TC position.)

**TC/UB Switch:**

The LTCOR is LUBR value is displayed.

**LTC/VITC (AUTO) Switch:**

The VITC or VUBR value is displayed.

LTCOR is displayed when VITC has not been recorded on tape.

• If the time code cannot be read at either position, interpolation is provided by the CTL signal.

The above illustration shows the AU-63H as seen from the front.

This illustration shows the lower panel of the AU-62H.



The AU-62H is not provided with the SHTL SELECT switch.

## Time code control section on AU-63H / 62H

**TC/UB switch:**

Selects the time code or user's bit display. (It is effective only when TC has been selected by the TC/CTL switch.)

**LTC/VITC (AUTO) switch:**

Displays the LTCOR or LUBR value.

**LTC:**

LTC or VITC is automatically switched by the tape speed and displayed when the TC/UB switch is at the TC position. LTCOR is displayed when VITC has not been recorded on the tape.

The VUBR value is displayed when the TC/UB switch is at the UB position.

• Interpolation is provided using the CTL signal if it was not possible for the time code to be read regardless of where the switch was set.

## 4 Basic control area

**READY Button:**

This is the READY mode ON/OFF button.

**PLAYER/RECORDER Buttons:**

These are used during operation in the P IN P mode and when the 9-pin connector is used to connect the unit with another VTR for editing purpose.

(AU-65H only)

**PLAYER Button:**

This is pressed when operating the player, which is remote controlled by this unit, while using 2 VTRs for editing.

**RECORDER Button:**

This is pressed when operating the recorder (this unit) while using 2 VTRs for editing.

(AU-65H only)

**EDIT Button:**

Editing commences when this is pressed together with the PLAY button.

**PLAY Button:**

To commence Playback mode.

**REC Button:**

To commence Record mode when pressed together with the PLAY button.

**REW Button:**

Re winds the tape at 32 times the normal tape speed.

**STOP Button:**

Shuts down all modes.

**FF Button:**

A noise-free still picture is obtained when this button is pressed during playback while the MODE switch is set to "TAPE".

**SERVO LOCK Lamp:**

Fast forwards the tape at 32 times the normal tape speed.

**REC INHIBIT Lamp:**

Lights during servo lock.

(AU-65H only)

**SEARCH Indicator:**

Indicates the operating status of the search dial.

**JOG Button:**

Press to establish the JOG mode.

**VAR Button:**

Press to establish the variable mode.

**VAR MEMORY Button:**

Press when conducting a variable memory operation.

**SHTL Button:**

Press to establish the shuttle mode.

## 5

### Search control area

**SEARCH Indicator:**

Indicates the operating status of the search dial.

**JOG Button:**

Press to establish the JOG mode.

**VAR Button:**

Press to establish the variable mode.

**VAR MEMORY Button:**

Press when conducting a variable memory operation.

**SHTL Button:**

Press to establish the shuttle mode.

## 6 LED display area

**LIMITER Lamp:** Lights when the front sub-panel AUDIO LIMITER switch is ON.  
**DOLBY NR Lamp:** Lights when the DOLBY NR switch is ON.  
**REF SCH Lamp:** Lights when SCH of the reference video signal is within  $\pm 60^\circ$  of the standard signal.  
**INPUT SCH Lamp:** Lights when SCH of the LINE IN video signal is within  $\pm 70^\circ$  of the standard signal.  
**CF Lamp:** Lights ■ the colour framing mode.

## 7 Editing point entry area on AU-65H

**AUDIO IN Button:** Use this button to enter, check and correct an AUDIO IN point.  
**IN Button:** Use this button to enter, check and correct an edit IN point.  
 When pressed in the P IN P double mode, the top right picture freezes at the player's IN entry point.  
**TRIM +/- Buttons:** Use these buttons to correct an edit point in 1-frame steps.  
**SET Button:** Use this button to enter an edit point.  
**GO TO Button:** Use this button to access an edit point.  
**AUDIO OUT Button:** Use this button to enter, check and correct ■ AUDIO OUT point.  
**OUT Button:** Use this button to enter, check and correct ■ edit OUT point.

## 8 Editing control area on AU-65H

**AUTO EDIT Button:** Press to execute automatic editing.  
**PREROLL Button:** Press to execute a preroll operation.  
**PREVIEW Button:** Press to execute ■ preview operation.  
**REVIEW Button:** Press to execute a review operation.

## 9 Editing mode selection area on AU-65H

**ASSEMBLE Button:** Press to establish assemble editing mode.  
**INSERT Button:** Press to establish insert editing mode.  
**REC INHIBIT Lamp:** This lights in the record inhibit mode.  
**Editing Channel Selector Buttons:** These select the editing channel.  
**VIDEO/FM:** Video/FM (CH3/4) is selected.  
**AUDIO CH1:** Linear CH1 audio is selected.  
**AUDIO CH2:** Linear CH2 audio is selected.  
**TIME CODE:** Time code is selected.  
**SPLIT EDIT Button:** Press this to establish audio split editing mode.

## 10 Display area

**Display:** The tape timer, time code, user bits and error messages appear on this display.  
**TC/CTL Switch:** Selects whether the time code (TC) or control signal (CTL) ■ to be used in order to read out the tape position.  
**RESET Button:** Resets the CTL value to zero.  
**HOLD Button:** Press to hold whatever is on the display.

## 11 Bottom panel area

**HEADPHONES Jack (6.3 mm):** Connect stereo headphones here.  
**HEADPHONE LEVEL Control:** Controls the headphones volume.  
**AUDIO MONITOR Controls:** These select the sound and channel to be monitored.  
**CH1/3:** For CH1 (or CH3) sound monitoring in both the left (L) and right (R) channels.  
**MIX:** Monitors CH1 (or CH3) sound in the left (L) channel and CH2 (or CH4) sound in the right (R) channels.  
**CH2/4:** For CH2 (or CH4) sound monitoring ■ both the left (L) and right (R) channels.  
**LINEAR:** Monitors linear sound (CH1/2).  
**FM:** Monitors FM sound (CH3/4).  
**TAPE:** This selects the monitoring picture in the stop or recording mode.  
**EE:** Monitors the playback picture.  
**EE:** Monitors the EE picture.  
**LINE:** Selects the input signal.  
**CHPNT/TC:** Records the composite signal from the LINE IN connector.  
**RECORD:** Records the signal from the component input connector or YC input connector.  
**REMOTE:** Selects remote control.  
**LOCAL:** Disables the remote control.

**MODE Switch:**  
(AU-65H only)

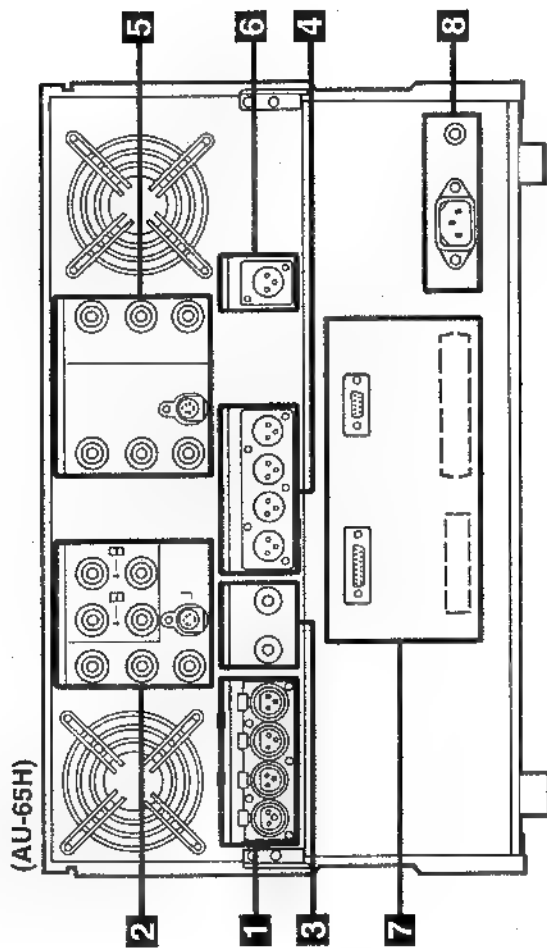
**INPUT Switch:**  
(AU-65H only)

**CONTROL Switch:**

## 12 Display section

**Display:** Indicates tape timer, time code, user's bit and error messages, etc.  
**Time code lamps:**  
**VTC:** Lights in VTC mode.  
**LTC:** Lights in LTC mode.  
**UB:** Lights in UB mode.  
**CTL:** Lights in CTL mode.  
**TC/CTL switch:** Selects the time code (TC) or control signal (CTL) for reading out the tape position. Indicated ■ the display. It also selects the reference signal during editing.  
**RESET button:** When pressed in the CTL mode, the tape timer indicated on the display is reset to zero.  
**HOLD button:** Press to hold the value now indicated on the display. Press it again to select the time code signal and then return to the previous mode.  
**REF SCH lamp:** Lights when the reference video signal SCH is  $\pm 60^\circ$ .  
**CF lamp:** Lights in the colour framing mode.  
**DOLBY NR lamp:** Lights when the Dolby NR system is working.

# Rear Panel



## 1 AUDIO IN signal area Om Au-65H

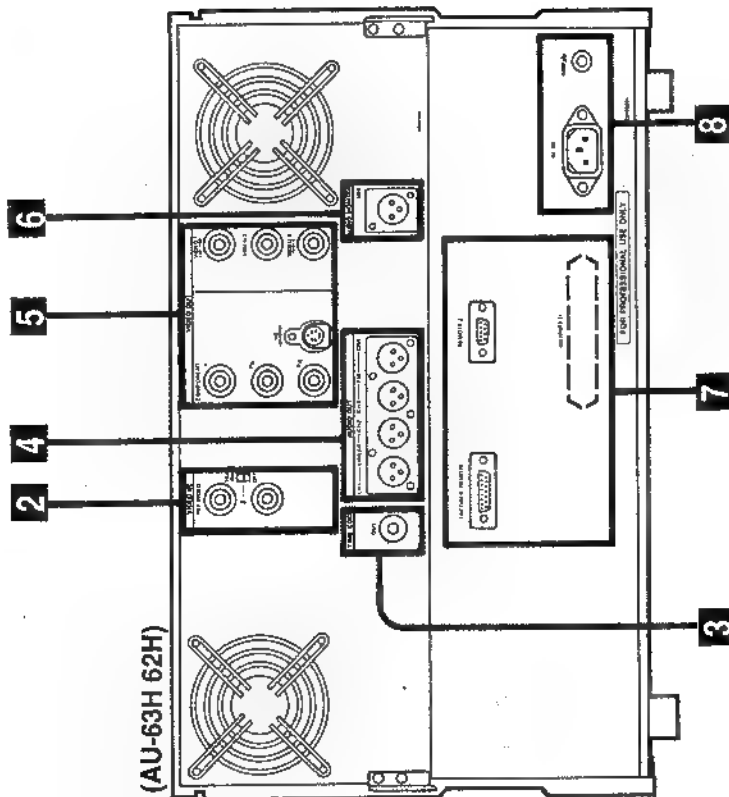
- CH1-4 IMPEDANCE Switch:** Selects the impedance value of CH1-4.  
**CH3/4 SELECT Switch:** Selects the signals to be recorded in FM AUDIO CH3/CH4.  
**LINEAR AUDIO CH1/CH2 Input:** This is the CH1/3 audio input connector.  
**FM AUDIO CH3/4 Input:** This is the CH2/4 audio input connector.

## 2 VIDEO IN signal area

- COMPONENT Connectors:** The component signals (Y, ■ and Pr) are supplied separately to these input connectors.  
**LINE IN Input Connectors:** The composite video signal is supplied to these input connectors (which come with loop-through 75-ohm terminating switch).  
**YC Input Connector:** This is the input connector for the YC signal which corresponds to the wide screen.  
**REF VIDEO IN Connectors:** The reference signal is supplied to these input connectors (which come with loop-through 75-ohm terminating switch).

## 3 Time code signal area

- TIME CODE Input Connector:** The time code signal is supplied to this connector.  
**TIME CODE Output Connector:** The time code signal is output from this connector.



## 4 AUDIO OUT signal area

- LINEAR AUDIO CH1/CH2 Output Connectors:** These are the output connectors for CH1 and CH2 audio.  
**FM AUDIO CH3/CH4 Output Connectors:** These are the output connectors for CH3 and CH4 audio.

## 5 VIDEO OUT signal area

- YC Output Connector:** This is the output connector for the YC signal which corresponds to the wide screen.  
**COMPONENT Output Connectors:** The component signals (Y, Pa and Pr) are output separately from these connectors.  
**VIDEO 1 Output Connector:** The video signal with sync (VBS) or without sync—depending on the position selected by the circuit board (W2 encoder board) switch—is output from this connector.  
**VIDEO 2 Output Connector:** The composite signal is output from this connector.  
**VIDEO 3 Output Connector:** Depending on the setting of the SUPER switch on the B1 SYSTEM CONTROL board, the VTR operating mode, time code or control signal can be superimposed on this output, besides P IN P mode. There is a delay equivalent to approximately 35ms compared with the VIDEO 1 and VIDEO 2 outputs for an exact phase alignment with that of the reference video signal.

## 6 AUDIO MONITOR signal area

•L, R or MIX sound is output, depending on the setting of the AUDIO MONITOR switch.

AUDIO MONITOR MIX Output Connector: The L, R and MIX sound is output from this connector.

## 7 Remote signal area

REMOTE 2 (9P) Connector:

RS-422A serial remote connector

REMOTE 1 (50P) Connector:

Terminal window for using the optional 50-pin parallel remote connector.

Set the front panel CONTROL switch to "REMOTE" and the front sub-panel REMOTE switch to "1".

ENCODER REMOTE Connector:

This is used for the remote control of the internal encoder from an external device.

## 8 Power supply area

AC IN Socket:

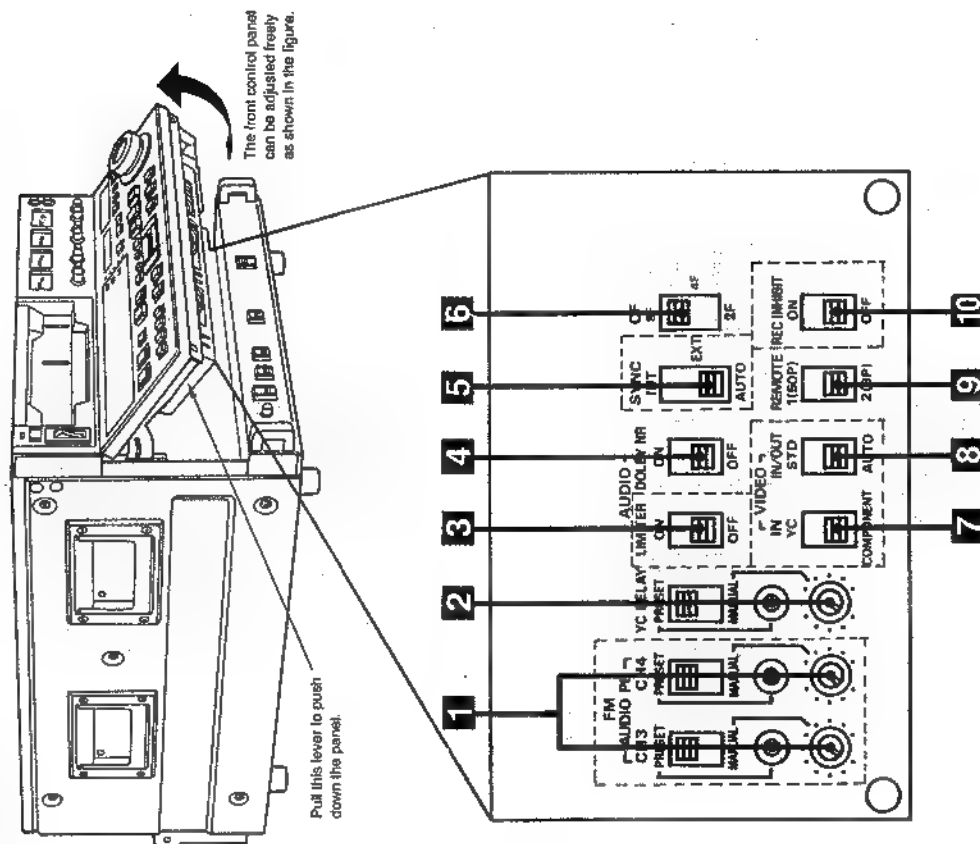
Use the accessory power cord to connect this socket to the power outlet.

GND Terminal:

Be sure to connect this to ground when this unit is connected with another device.

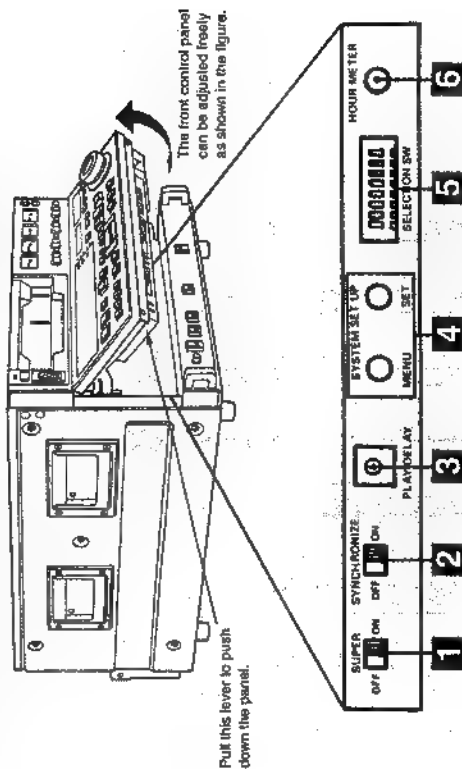


# Front Sub-Panel



- 1 FM AUDIO (CH3 / CH4) PB Switches / Controls :  
(AU-62H / 63H only)  
PRESET : The playback level of the FM sound is set to the preset status.  
MANUAL : The playback level of the FM sound can be adjusted as desired.
- 2 YC DELAY Switches/Controls:  
PRESET: YC timing is set to the preset status.  
MANUAL: YC timing can be adjusted as desired.
- 3 AUDIO LIMITER Switch:  
(AU-65H only)  
ON: This works for linear audio signals only.  
OFF: The volume limiter circuit is activated when the input signal level is excessively high.
- 4 DOLBY NR Switch:  
ON/OFF switch for Dolby C Noise Reduction. (This works only for linear audio signals.)
- 5 SYNC Switch:  
(AU-65H only)  
INT: This selects the servo reference signal.  
EXT: Synchronizes the servo with the external reference signal.  
AUTO: Synchronizes the servo with the video input signal during recording and editing, and with the external reference signal during playback.
- 6 CF Switch:  
8F: This selects the colour framing mode during editing and playback.  
4F: For recording, playback and editing in 4-field units.  
2F: For recording, playback and editing in 2-field units.
- 7 VIDEO IN Switch:  
(AU-65H only)  
YC: This selects COMPONENT  $\equiv$  YC  $\equiv$  the video input signal.  
COMPONENT: For component signal input.
- 8 VIDEO IN/OUT Switch:  
(AU-65H only)  
STD: For supplying a regular composite signal through the time base corrector (TBC).  
AUTO: For automatically identifying whether the signal has passed through the TBC  $\equiv$  not.
- 9 REMOTE Switch:  
1 (50P): When using an optional REMOTE 1 (50P) connector  
2 (9P): When using the REMOTE 2 (9P) connector
- 10 REC INHIBIT Switch:  
(AU-65H only)  
ON: The REC INHIBIT lamp lights to indicate that recording is inhibited.  
OFF: Signals can be recorded in this position.

## B1.SYSTEM CONTROL Board



### 1 SUPER Switch:

This is the ON/OFF switch for P IN P mode and superimposing time code, status or other character signals onto the signal which is output from the VIDEO 3 connector.

### 2 SYNCHRONIZE Switch: (AU-65H only)

When this is set to ON, operation will be synchronized when controlling the player in an editing system where this unit is serving as the recorder.

### 3 PLAY DELAY Switch:

This sets the duration (in frame units) of the transition from the stop mode to the play mode. Any value from 0 to 15 can be set.

### 4 SYSTEM SET Buttons:

These are used to change the unit's setup and moving the sub picture position in the P IN P signal mode.

### 5 SELECTION SW:

Not used. (All switches are set to OFF.)

### 6 HOUR METER Button:

When this is pressed, the accumulated values for the "Total power ON time" and "Drum rotation time" appear on the display and on-screen.

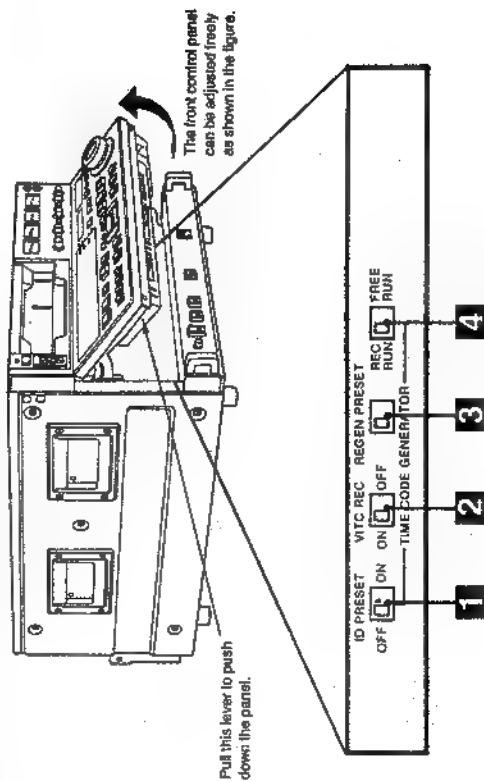
Display indication

P00000H D00000H

On-screen display

POWER ON 00000 HOURS  
DRUM ON 00000 HOURS

## B2.TCG/TCR Board



### 1 PRESET Switch:

This switch is used to select the ID code. User bits, such as the VTR No., that are likely to be used frequently can be set in advance as a characteristic code (ID code) for the VTR. This ID code can be called whenever necessary. When the set-up menu item No.6006 "UB REAL TIME" is OFF, the following selection can be made. When the VTR is in the STOP mode, the ID code can be set. When the VTR is in the recording mode, the ID code is recorded. The ID code is not set. Instead, the normal user bit values are set/recorded/displayed.

### 2 VITC REC Switch:

ON: To record the new VITC value onto tape.  
OFF: The new VITC value is not recorded.

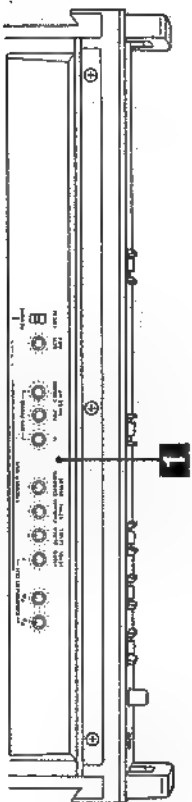
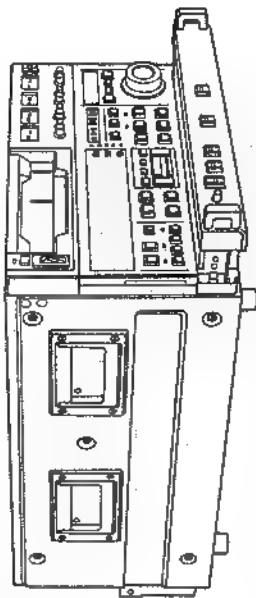
### 3 REGEN/PRESET Switch:

REGEN: To synchronize the internal time code with the playback time code or external time code.  
PRESET: To use the internal time code.

### 4 REC RUN/FREE RUN Switch:

REC RUN: The time code runs only during recording.  
FREE RUN: The time code runs in real time, regardless of the operating mode of the VTR.

## Preset Panel



## 1 ENCODER OUT control area

### Pb/Pr Controls:

VIDEO LEVEL Control:

BLACK LEVEL Control:

CHROMA LEVEL Control:

CHROMA PHASE Control:

SYS H PHASE Control:

SYS SC Controls:

**FINE:** For continuous adjustment in just over a 90° range; 360° coverage.

**COARSE:** For adjustment in 4 steps of 90° each.

This adjusts the SC phase in relation to the sync signal supplied from the VIDEO output connector.

SCH ADJ Control:

REMOTE/LOCAL Switch:

**REMOTE:** To adjust the encoder from an external unit.

**LOCAL:** To adjust the encoder using this unit.

**Note:**

if the ENCODER REMOTE connector has not been connected ■ the rear panel, LOCAL mode is selected automatically.

Adjust the level of the COMPONENT output signals.

Adjusts the level of all the video signals except the sync and burst.

Adjusts the black level.

Adjusts the chroma level.

Adjusts the chroma phase.

Adjusts the system H phase.

Adjust the system SC phase.

For continuous adjustment in just over a 90° range; 360° coverage.

This adjusts the SC phase in relation to the sync signal supplied from the VIDEO output connector.

To adjust the encoder from an external unit.

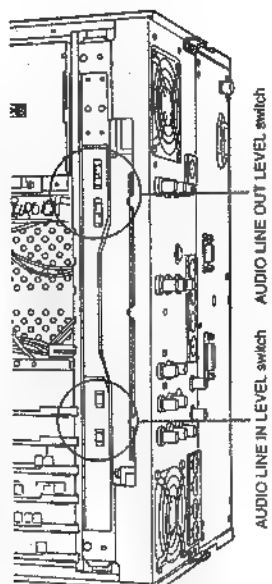
To adjust the encoder using this unit.

Note:

if the ENCODER REMOTE connector has not been connected ■

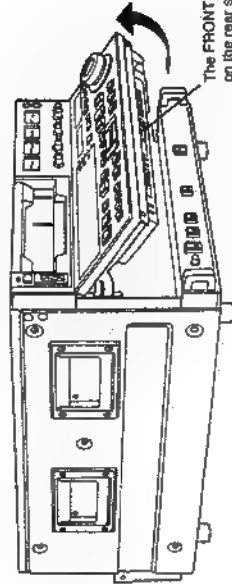
the rear panel, LOCAL mode is selected automatically.

## Circuit Boards



AUDIO LINE IN LEVEL switch


AUDIO LINE OUT LEVEL switch



The FRONT PANEL circuit board is on the rear side of the front panel.


**CAUTION:** TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER CHANGE OF SWITCH SETTING INSIDE THE UNIT TO AUTHORIZED SERVICE PERSONNEL.

# AU-65H only

| PCB                    | SW no.     | Switch                        | Function   | Initial setting |
|------------------------|------------|-------------------------------|--|-----------------|
| W1 PCB: TBC & SYNC GEN | SW4/5/6    | V-blanking selector switch    | Blanks the video signal during the V-blanking interval (blanking when in ON position).<br>  | ALL OFF         |
|                        | SW201      | Frame detection switch        | SWB: 7 LINE<br>When the unit is used as a player during editing, if the VTC insert line position on the tape differs from the settings of the editor, set these switches ON to blank the VTC insert line.<br>Detects the video input frame when there is no TBC.<br>ON: Detection takes place.<br>OFF: Detection is inhibited. | ON              |
| W2 PCB: ENCODER        | SW200      | VIDEO phase switch            | Adjusts the video phase.   | 9               |
|                        | SW201      | SYNC ON/OFF switch            | Adds the SYNC signal to the VIDEO OUT1 output signal.<br>ON: SYNC signal is added.<br>OFF: SYNC signal is not added.   | ON              |
| W3 PCB: MOD 4 DEMOD    | SW1        | VIDEOSYNC meter switch        | Selects VIDEO meter.   | VIDEO           |
|                        | SW101/301* | AUDIO LINE IN LEVEL switch    | Sets the CH1/2 (SW101) or CH3/4 (SW301) audio input level.<br>-20dB/+4 dBu   | 0 dBu           |
| AUDIO I/O PCB          | SW102/302  | AUDIO LINE OUT LEVEL switch   | Sets the CH1/2 (SW102) or CH3/4 (SW302) audio output level.<br>-20dB/+4 dBu  | 0 dBu           |
|                        | SW1        | Pretoll time switch           | This selects the pretoll time to any value from 0 to 15 seconds.   | 5 sec.          |
| FRONT PANEL            | SW2-1      | Not used                      |  | OFF             |
|                        | SW2-2      | NEGATIVE display switch       | This selects whether "NEGATIVE" is to be indicated on the display when the IN point is equal to, or less than, the OUT point during edit point entry.<br>ON: "NEGATIVE" appears in block 2.<br>OFF: "NEGATIVE" does not appear.  | OFF             |
|                        | SW4-1      | Remaining tape display switch | This selects whether the remaining tape is to be indicated on the display.<br>ON: Displayed when block 3 is empty.<br>OFF: Displayed all the time.   | OFF             |
|                        | SW4-2      | TSD switch                    | Selects TSD in accordance with the connected machine.<br>ON: TSD for AU-650, AU-650 only.<br>OFF: TSD for AU-750, AU-850B, AU-85, AU-630, AU-640 only (This can be changed in 1% steps up to $\pm 15\%$ ).   | OFF             |
|                        | SW4-3~4-8  | Not used                      |  | OFF             |
|                        | SW4-7      | Forced EE selector switch     | This selects the forced EE mode during tape eject.<br>ON: EE mode is set all the time regardless of the MODE switch position.<br>OFF: Mode corresponds to MODE switch setting.   | OFF             |

\*At the time of shipping from the factory, this unit is adjusted so that the audio level meter indicates -4 dB with input of a 1 kHz standard signal.

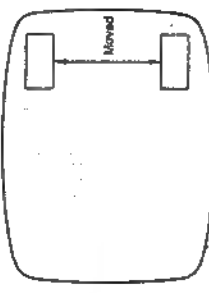
# AU-63H / 62H only

| PCB                    | SW no. | Name                          | Function   | Initial setting |
|------------------------|--------|-------------------------------|--|-----------------|
| W1 PCB: TBC & SYNC GEN | SW4    | V-blanking selector switch    | Blanks the video signal during the V-blanking interval (blanking when in ON position).<br>  | ALL OFF         |
|                        | SW203  | VIDEO phase switch            | SWB: 7 LINE<br>When the unit is used as a player during editing, if the VTC insert line position on the tape differs from the settings of the editor, set these switches to the ON position to blank the VTC insert line.<br>This adjusts the video phase. | 9               |
| W2 PCB: ENCODER        | SW201  | SYNC ON/OFF switch            | The SYNC signal is added to the VIDEO OUT1 output signal.<br>ON: SYNC signal is added.<br>OFF: SYNC signal is not added.   | ON              |
|                        | SW1    | VIDEOSYNC meter switch        | Selects the video meter mode.  | VIDEO           |
| W6 PCB: AUDIO I/O      | SW102  | AUDIO LINE OUT LEVEL switch   | This sets the CH1/2 AUDIO output level (+4dB/-20 dBu).   | 0 dBu           |
|                        | SW302  | AUDIO LINE OUT LEVEL switch   | This sets the CH3/4 AUDIO output level (+4dB/-20 dBu).   | 0 dBu           |
| FRONT PANEL PCB        | SW1    | Pretoll time switch           | SW1 selects the pretoll time.  | 5 sec.          |
|                        | SW2-1  | Remaining tape display switch | Selects whether the remaining time is to be indicated on the display.<br>ON: Display<br>OFF: No display  | OFF             |
|                        | SW2-2  |                               |  | OFF             |
|                        | SW2-3  | TSD switch                    | Select the tape speed override (TSO) according to the machine connected.<br>ON: TSO for AU-650, AU-620 only<br>OFF: TSO for AU-80, AU-65, AU-65H, AU-640, AU-650 only<br>TSO can be varied in 1% increments up to $\pm 15\%$ .                             | OFF             |

# Set-up Menus (cont.)

## Superimpose set-up items (cont.)

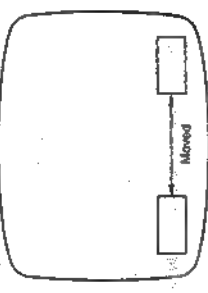
[The shading denotes the initial setting.]

| No.                 | Item                 | Set-up value                                 |   | Description of function   |
|---------------------|----------------------|--|---|---|
|                     |                      | No.  | Superimpose display                                     |   |
| 2003                | CHARACTER V-POSITION | 00<br>01<br>02<br>03<br>04<br>05<br>06<br>07 | Selection is made while observing superimposed display. | <p>Selects vertical position for VIDEO 3 superimpose display; moves characters down as NO. is increased.</p>   |
| 2004                | STATUS SUPER         | 00<br>01                                     | OFF<br>ON   | Selects whether VTR operation mode is to be indicated as a superimposed display of VIDEO 3 output signal.   |
| 2005<br>AU-65H only | VIDEO OUT 3 SELECT   | 00<br>01<br>02                               | SUPER<br>P IN P<br>P IN P SUPER                         | <p>When the SUPER switch on the B1. SYSTEM CONTROL board is ON, either the superimpose display at VIDEO OUT 3 or P IN P output is selected.</p> <p>00: Only superimpose is displayed.</p> <p>01: Only P IN P is output.</p> <p>02: Both are output.</p> |
| 2005<br>AU-65H only | P IN P MODE SELECT   | 00<br>01                                     | SINGLE<br>DOUBLE  | <p>Selects the P IN P mode.</p> <p>00: The player VTR's picture is output at the top right of the screen as the sub picture.</p> <p>01: The player VTR's picture is output both at the top right and top left of the screen.</p>                        |

| No.                 | Item               | Set-up value   |                        | Description of function   |
|---------------------|--------------------|----------------|------------------------|---|
|                     |                    | No.            | Superimpose display    |   |
| 1013                | FREEZE SELECT      | 00<br>01       | OFF<br>ON              | <p>Noise-free still pictures are played back.</p> <p>00: The picture is not frozen.</p> <p>01: The picture is frozen when the mode is transferred from playback to stop.</p>  |
| 1014<br>AU-65H only | WIDE INPUT SELECT  | 00<br>01       | AUTO<br>WIDE           | <p>Selects whether to record wide size video information contained in the YC input signals.</p> <p>00: The wide size is automatically identified by the wide size information in the YC input signals, and it is recorded.</p> <p>01: The wide size information is recorded regardless of the input.</p>  |
| 1015                | WIDE OUTPUT SELECT | 00<br>01<br>02 | AUTO<br>NORMAL<br>WIDE | <p>Selects whether to place the wide size information on the YC output signals.</p> <p>00: The wide size information is automatically placed on the YC output signals by the wide size information on the tape.</p> <p>01: The wide size information is not placed on the YC output signals.</p> <p>02: The wide size information is placed on the YC output signals.</p> |

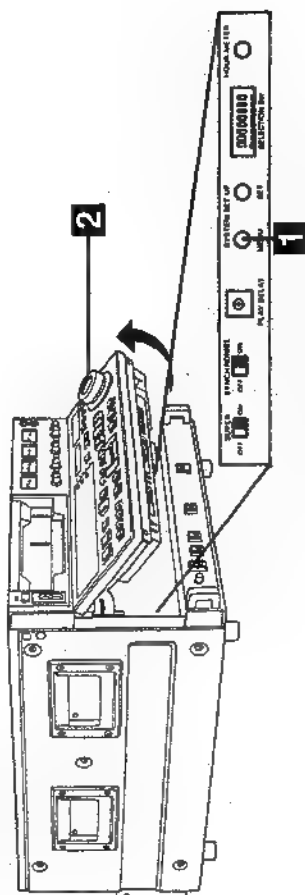
## Superimpose set-up items

[The shading denotes the initial setting.]

| No.  | Item                 | Set-up value                                 |   | Description of function   |
|------|----------------------|--|---|---|
|      |                      | No.  | Superimpose display                                     |   |
| 2001 | CHARACTER BACKGROUND | 00<br>01                                     | Selection is made while observing superimposed display. | <p>Selects the type of characters for the VIDEO 3 superimpose display.</p> <p>00: Black display</p> <p>01: Edge display</p> <p>LTCR ***:***:***:***<br/>LTCR ***:***:***:***</p>                              |
| 2002 | CHARACTER H-POSITION | 00<br>01<br>02<br>03<br>04<br>05<br>06<br>07 | Selection is made while observing superimposed display. | <p>Selects horizontal position for VIDEO 3 superimpose display; moves characters towards right as NO. is increased.</p>  |



# Operation Method of Dial Menu Functions



## 1 Press the MENU button on the B1. SYSTEM CONTROL board.

The picture below appears on the monitor:

(If changes were made previously to the set-up, the screen will show the last such change.)

Display

SETUP-MENU

NO. 1001

SYSTEM SET UP

○

○

MENU

SET

SETUP-MENU NO. 1001

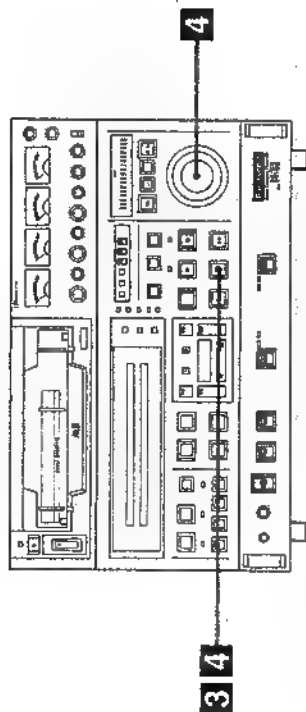
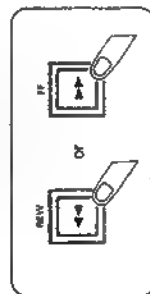
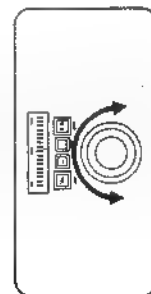
01 STILL TIME SELECT  
02 TAPE PROTECTION SELECT  
03 READY OFF MODE SELECT  
04 STILL MAX SPEED SELECT  
05 STILL MAX SPEED SELECT  
06 STILL MAX SPEED SELECT  
07 VTR MODE AT TAPE END  
08 TBC CONTROL SELECT

Superimpose display

## 2 Turn the search dial and find the setting item.

When the dial is rotated clockwise, the setting items are successively incremented (1001→1002→1003, etc.); conversely, when it is rotated counterclockwise, they are decremented.

Press the FF (page up) or REW (page down) button to change the set-up menu in page units.  
The set-up menu changes page by page.



## 3 Press the STOP button at the desired item.

The set-up display, such as that below, will appear on the screen for as long as the STOP button is held down.

Display

SETUP-MENU

NO. 1001-1



SETUP-MENU NO. 1001-1

STILL TIME SELECT

5 SEC

Superimpose display

## 4 Turn the search dial while holding down the STOP button.

The flashing display changes. Set to the desired value.

Display

SETUP-MENU

NO. 1001-3



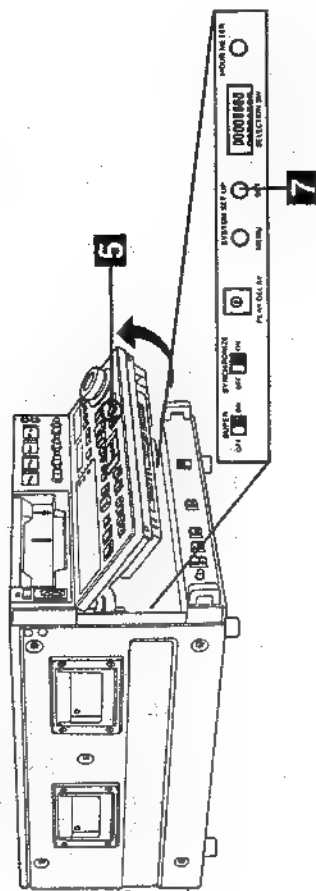
SETUP-MENU NO. 1001-3

STILL TIME SELECT

30 SEC

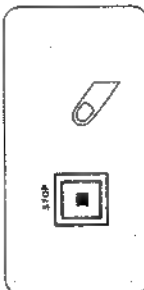
Superimpose display

# Set-up Menus



## 5 Release the STOP button.

The set-up menu display returns to the screen.



## 6 Repeat steps 3 to 5.

Set all the set-up items to be changed to the desired values.

## 7 Press the SET button on the B1. SYSTEM CONTROL board.

Upon completion of the setting, press the SET button on the B1. SYSTEM CONTROL board.  
The set-up changes are stored in the memory.



## REFERENCE

•To terminate operation in the mode without storing the settings in the memory:

Press the MENU button on the B1. SYSTEM CONTROL board.

•To return the set-up to the initial settings (set at the factory):

Press the RESET button while the set-up menu is displayed. The following message will now appear.

SETUP-MENU INIT. SET OK?  
(PUSH PLAY KEY)

The original settings are restored when the PLAY button is pressed.

## Operation/function set-up items

[The shading denotes the initial setting.]







| No.  | Item                       | Set-up value                                 |   | Description of function   |
|------|----------------------------|--|---|---|
|      |                            | No.  | Superimpose display   |   |
| 1001 | STILL TIME SELECT          | 00<br>01<br>02<br>03<br>04<br>05<br>06<br>07 | 0.5 SEC<br>5 SEC<br>10 SEC<br>30 SEC<br>1 MIN<br>3 MIN<br>5 MIN<br>10 MIN | When the unit is left in the STOP or STILL mode, this selects the duration of time after which the unit is automatically placed in the TAPE PROTECTION mode in order to protect the tape.   |
| 1002 | TAPE PROTECTION SEL        | 00<br>01                                     | T. RELEASE<br>READY OFF   | This selects the operation in the tape protection mode.<br>00 : Tape tension release<br>01 : Ready OFF mode (In conformity with No. 1003)   |
| 1003 | READY OFF MODE SELECT      | 00<br>01<br>02                               | DRUM ROTATION<br>DRUM STOP<br>UNLOADING                                   | Selects the operation in the READY OFF mode.<br>00 : Drum rotates.<br>01 : Drum stops rotating.<br>02 : Unloading.  |
| 1004 | SHTL DIAL AU-63H /63H only | 00<br>01                                     | DIRECT SHTL<br>RESET VAR  | Selects the operation mode for the dial in any mode except shuttle.<br>00 : Direct shuttle mode<br>01 : Preset variable mode.   |
| 1004 | SHTL DIAL AU-62H only      | 00<br>01                                     | DIRECT SHTL<br>NON DIRECT SHTL  | Selects the dial operation mode (not in the SHTL mode).<br>00 : Direct shuttle mode<br>01 : Normal  |
| 1005 | VARIP-PLAY AU-63H only     | 00<br>01                                     | VAR<br>P-PLAY   | 00 : Variable mode<br>01 : Program playback mode  |
| 1006 | SHTL MAX SPEED SELECT      | 00<br>01                                     | *32<br>*16  | Selects the maximum search speed in the shuttle mode.<br>00 : 32x normal tape speed<br>01 : 16x normal tape speed   |
| 1007 | VTR MODE AT TAPE END       | 00<br>01                                     | STOP<br>AUTO REW  | Selects the operation after the tape-end has been detected.<br>00 : Stop<br>01 : Automatic rewinding to start   |
| 1010 | TBC CONTROL SELECT         | 00<br>01                                     | V-FLOAT<br>NON-FLOAT  | Used to float the internal SYNC to enable H to be aligned with the reference signal and V to be aligned with the input signal.<br>00 : Floating<br>01 : Not floating  |
| 1011 | STD/NON-STD SELECT         | 00<br>01                                     | STD<br>NON-STD  | Selects whether to forcibly establish the NSTD mode regardless of the position of the VIDEO IN/OUT switch on the front sub-panel.<br>00 : As per position set by VIDEO IN/OUT switch.<br>01 : NSTD mode is forcibly established.                    |
| 1012 | VISC CONTROL SELECT        | 00<br>01                                     | CONTROLLED<br>NOT CONTROLLED  | This uses VISC to align the subcarrier phase of the input video signal and the subcarrier phase of the encoder video output signal. (It is effective only during normal playback with CF SW 4F or 8F.)<br>00 : VISC control<br>01 : No VISC control |

# PIN P Function on AU-65H

This function uses a main picture and sub picture to enable playback signals and input signals to be displayed on the same monitor screen. In the single mode, the main picture and sub picture can be switched, and the linear sound of the main picture is output from MONITOR OUT.

When used in the double mode, the player's IN points can be checked during automatic editing operations using two recorders.

## Monitor screen displays

|   | PIN P mode   |   |
|---|--|---|
|   | SINGLE mode<br>(main/sub picture switching possible)   | DOUBLE mode<br>(main/sub picture switching impossible)  |
| <b>SUPER</b><br>(super-imposing only)                   |   |    |
| <b>PIN P</b><br>(PIN P mode only)                       |  <p>Picture is moved by SYSTEM SET UP button on B1. SYSTEM CONTROL board.</p>                                       |  <p>The top right sub picture freezes at the IN entry point when the IN and SET buttons are pressed at the same time.</p>  |
| <b>PIN P + SUPER</b><br>(super-imposing and PIN P mode) |  <p>The main picture is replaced by the sub picture and vice versa when the PLAYER/RECORDER button is pressed.</p> |  <p>The top right sub picture freezes at the IN entry point when the IN and SET buttons are pressed at the same time.</p> |

Superimposing modes (video output 3)

## SINGLE mode

- When the power is turned on, the player's picture is monitored at the top right as the sub picture.
- While the POWER button is depressed or while the PLAYER lamp has lighted, the player's picture serves as the main picture to replace the recorder's picture. The linear sound is also switched to the player's sound. (The FM sound is not switched.)
- Each time the SYSTEM SET UP button on the B1. SYSTEM CONTROL board is pressed, the display position of the sub picture is moved. (However, the sub picture cannot be moved while the menu screen is displayed.)

## DOUBLE mode

- When the power is turned on, the player's picture is monitored at the top right and top left as sub pictures.
- When the player's IN point is entered (by pressing the IN and SET buttons simultaneously), the sub picture at the top right freezes. When the IN point is reset, it is released.

# Set-up menus (cont.)

## Remote set-up items

[The shading denotes the initial setting.]

| No.  | Item                  | Set-up value   |  | Description of function   |
|------|-----------------------|--|--|---|
|      |                       | No.  | Superimpose display  |   |
| 3001 | REMOTE OPERATION SEL  | 00<br>01<br>02<br>03   | SEPARATE<br>LOCAL+REMOTE<br>BOTH REMOTE<br>ALL OPERATION   | Selects connector which can be controlled when REMOTE switch is at REMOTE position.<br>00: Selected by CONTROL switch<br>01: Control panel and connector selected<br>02: REMOTE 1 and REMOTE 2<br>03: All operations possible                                     |
| 3002 | EJECT/STOP FNCTN REM. | 00<br>01   | POSSIBLE<br>NOT POSSIBLE   | Selects operation of panel EJECT/STOP button in remote mode.<br>00: Enables operation.<br>01: Disables operation.   |
| 3003 | 50P STOP STATUS SEL   | 00<br>01   | FLASHING<br>NOT FLASHING   | Selects whether or not to indicate by flashing the STOP status signal which is supplied to 50-pin remote connector in READY-OFF mode.<br>00: Flashing<br>01: Not flashing   |
| 3004 | 9P DEVICE TYPE SELECT | 00<br>01<br>02   | OTHER TYPES 1<br>OTHER TYPES 2<br>M2 ID  | Selects ID code returned in response to 9P device type request command when control is exercised using 9-pin remote connector.<br>00: 1100 (BVU-800) 02: A111 (AU-62H)<br>01: 2125 (BVW-75) 02: A112 (AU-63H)<br>02: A110 (AU-65H)                                |
| 3005 | VTR ADDRESS           | 00<br>01<br>02<br>03<br>04<br>05<br>06<br>07<br>08<br>09<br>10<br>11<br>12<br>13<br>14<br>15 | A (8880)<br>B (8882)<br>C (8884)<br>D (8886)<br>E (8888)<br>F (888A)<br>G (888C)<br>H (888E)<br>I (88C0)<br>J (88C2)<br>K (88C4)<br>L (88C6)<br>M (88C8)<br>N (88CA)<br>O (88CC)<br>P (88CE) | Sets identification number of each VTR when VTRs are connected to a multi-drop system through an RS-422 (9-pin) serial bus under the control of a special controller.<br><br>This setting is effective starting from the time when the power is next switched ON. |

## Editing set-up items

[The shading denotes the initial setting.]

| No.                 | Item                 | Set-up value |                          | Description of function   |
|---------------------|----------------------|--------------|--------------------------|---|
|                     |                      | No.          | Superimpose display      |   |
| 4001<br>AU-65H only | CF ADJUSTMENT SELECT | 00<br>01     | TO PLAYER<br>TO RECORDER | Selects the VTR which is to adjust the entered points for VTR-to-VTR editing. (0 to +3 frame)<br>00: The points on the player tape are adjusted.<br>01: The points on the recorder tape are adjusted. |
| 4002<br>AU-65H only | EDIT FIELD SELECT    | 00<br>01     | ODD<br>EVEN              | Selects the start field for editing.<br>00: Start with odd number field<br>01: Start with even number field   |
| 4003<br>AU-65H only | AUTO PREROLL ENTRY   | 00<br>01     | NOT ENTERED<br>ENTERED   | Selects whether to enter the IN point by pressing the preroll button when the IN point has not been entered.<br>00: Entered<br>01: Not entered  |

## Colour framing set-up items

[The shading denotes the initial setting.]

| No.  | Item                | Set-up value |                     | Description of function   |
|------|---------------------|--------------|---------------------|---|
|      |                     | No.          | Superimpose display |   |
| 5004 | CF SELECT AT Pb OUT | 00<br>02     | AUTO<br>ON          | Selects whether to add the colour framing ID to the COM-PONENT Pb OUT connector signal.<br>00: Forcibly added when the composite video input signal is recorded in the normal recording or assemble editing mode.<br>Added when CF lamp lights in the playback mode.<br>02: Added |

# Set-up menus (cont.)

## Time code set-up items

[The shading denotes the initial setting.]

| Item                   | Set-up value |                     | Description of function   |
|------------------------|--------------|---------------------|---|
|                        | No.          | Superimpose display |   |
| 6001<br>AU-65H<br>only | 00           | 8 LINE              | Selects VTTC signal insertion line.<br>*Same line as No.6002 cannot be selected.  |
|                        | 01           | 9 LINE              |   |
|                        | 02           | 10 LINE             |   |
|                        | 03           | 11 LINE             |   |
|                        | 04           | 13 LINE             |   |
|                        | 05           | 14 LINE             |   |
|                        | 06           | 15 LINE             |   |
|                        | 07           | 16 LINE             |   |
|                        | 08           | 17 LINE             |   |
|                        | 09           | 18 LINE             |   |
|                        | 10           | 19 LINE             |   |
|                        | 11           | 20 LINE             |   |
|                        | 12           | 21 LINE             |   |
| 6002<br>AU-65H<br>only | 00           | 8 LINE              | Selects VTTC signal insertion line.<br>*Same line as No.6001 cannot be selected.  |
|                        | 01           | 9 LINE              |   |
|                        | 02           | 10 LINE             |   |
|                        | 03           | 11 LINE             |   |
|                        | 04           | 13 LINE             |   |
|                        | 05           | 14 LINE             |   |
|                        | 06           | 15 LINE             |   |
|                        | 07           | 16 LINE             |   |
|                        | 08           | 17 LINE             |   |
|                        | 09           | 18 LINE             |   |
|                        | 10           | 19 LINE             |   |
|                        | 11           | 20 LINE             |   |
|                        | 12           | 21 LINE             |   |
| 6003<br>AU-65H<br>only | 00           | TC UP               | Selects regeneration signal when TCG is in REGEN mode.<br>00: Regenerated for time code and user bits.<br>01: Regenerated for time code only.<br>02: Regenerated for user bits only.  |
|                        | 01           | TC                  |   |
|                        | 02           | UB                  |   |
| 6004<br>AU-65H<br>only | 00           | ASSEM INSERT        | Selects whether time code is to be regenerated in VTR-to-VTR editing.<br>00: Regenerated for assemble and insert editing.<br>01: Regenerated for assemble editing.<br>02: Regenerated for insert editing.<br>03: Conforms to time code board setting. |
|                        | 01           | ASSEM               |   |
|                        | 02           | INSERT              |   |
|                        | 03           | TC SWITCH           |   |
| 6005<br>AU-65H<br>only | 00           | AUTO REF            | Selects reference signal for time code generator.<br>00: Automatically selected under same condition as servo tolerance<br>01: Reference video signal serves as reference.  |
|                        | 01           | REF                 |   |

## Time code set-up items

[The shading denotes the initial setting.]

| Item                              | Set-up value |                     | Description of function   |
|-----------------------------------|--------------|---------------------|---|
|                                   | No.          | Superimpose display |   |
| 6006<br>TC OUT<br>SIGNAL<br>REGEN | 00           | OFF                 | Selects waveform which is output from TIME CODE OUT connector in internal regeneration mode.<br>00: Outputs playback signals in their original form.<br>01: Regenerates and outputs playback signals only in servo lock mode. |
|                                   | 01           | REGEN               |   |
| 6007<br>AU-65H<br>only            | 00           | NOT SPECIFIED       | Selects mode for using user bits generated by TCG.<br>00: No character set assigned.<br>01: 8-bit character set conforming to ISO646, ISO2022.<br>02/03: Not defined  |
|                                   | 01           | ISO CHARAC-TER      |   |
|                                   | 02           | UNASSIGNED 1        |   |
|                                   | 03           | UNASSIGNED 2        |   |
| 6008<br>AU-65H<br>only            | 00           | OFF                 | Sets the real time mode for the user bits.<br>00: No setting<br>01: Setting for LTC UB only<br>02: Setting for VTTC UB only<br>03: Setting for both LTC UB and VTTC UB  |
|                                   | 01           | LTC UB              |   |
|                                   | 02           | VTTC UB             |   |
|                                   | 03           | BOTH                |   |
| 6009<br>WAKEUP<br>SELECTION       | 00           | TC                  | Selects the time data display when power is ON.<br>00: TC display<br>01: CTL display  |
|                                   | 01           | CTL                 |   |
| 6010<br>TCG CF FLAG               | 00           | OFF                 | Selects whether CF flag of time code generator is to be set ON.<br>00: CF flag not set<br>01: CF flag is set, and time code generator is locked to CF of video signal during recording.                                       |
|                                   | 01           | ON                  |   |

## Error Messages on AU-65H

| Display          | Description  | VTR operation       |
|------------------|--|---------------------|
| SERVO NOT LOCKED | Flashes during the PLAY, REC PLAY or EDIT PLAY mode when the servo system has been disengaged for 3 or more seconds.   | Continues operation |
| LOW-RF           | Flashes when a dropout has been detected for 2 or more seconds while the PLAY lamp is ON and the tape is traveling at 1X speed.  | Continues operation |
| DRUM MOTOR       | Alarm sounds and message flashes when drum lock status continues for 5 or more seconds.  | Stops               |
| REEL MOTOR       | Alarm sounds and message flashes when, in capstan mode, take-up reel does not rotate while the tape is advanced by about 10 cm.  | Stops               |
| FRONT LOAD MOTOR | VTR mode is transferred to eject if cassette does not assume "down" position even when 5 seconds have elapsed after cassette was inserted.                                 | Ejects cassette     |
|                  | Alarm sounds and message flashes when cassette does not assume "up" position when VTR is transferred to eject mode and 5 seconds have elapsed after cassette was inserted. | Stops               |
| LOADING MOTOR    | VTR mode is transferred to unloading when loading operation is not completed within 10 seconds.  | Unloads tape        |
|                  | Alarm sounds and message flashes when unloading operation is not completed within 10 seconds.  | Stops               |
| PHOTO TRANSISTOR | Alarm sounds and message flashes when sensor LED has failed.   | Stops               |
| DEW              | Alarm sounds and message flashes when condensation has formed.   | * Ejects tape       |
| TAPE SLACK       | Alarm sounds and message flashes when tape is slack.   | Stops               |
| REEL DRIVE ERROR | Alarm sounds and message flashes when actual tape advance direction differs from system control command by 5 or more seconds.  | Stops               |
| DC ∞ V TROUBLE   | Alarm sounds and message flashes when there is something wrong with the power supply or related parts.   | Stops               |
| FAN STOP         | Alarm sounds and message flashes when fan inside power supply box stops operating.   | Continues operation |
| FG TROUBLE       | Alarm sounds and message flashes when there is something wrong with reel travel during high-speed search.  | Stops               |
| NEGATIVE         | Flashes when front panel DIP SW2-2 is ON if IN point is equal to or greater than OUT point during edit point entry.  | ---                 |

\*When condensation has formed, the drum continues to rotate so that the condensation will dry out. Once it has been removed, the AUTO OFF lamp and error display go off, and the VTR can be used again.

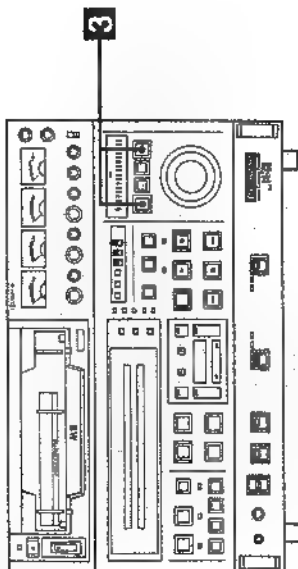
## Error messages on AU-63H / 62H

Contact your authorized dealer if any of the error messages listed below should appear on the display.

| Display                   | Description   | VTR operation        |
|---------------------------|---|----------------------|
| E-40                      | Display flashes during playback when servo disturbances continue for 3 or more seconds.   | Operation continues. |
| E-41                      | Display flashes when dropouts have been detected for more than 2 sec. during 1X tape speed while PLAY lamp is lighted.                        | Operation continues. |
| E-10                      | Alarm sounds and display flashes when drum lock continues for 5 or more sec.  | Operation stops.     |
| E-11                      | Alarm sounds and display flashes when take-up reel does not rotate while tape is fed for about 10 cm.   | Operation stops.     |
| E-14                      | Alarm sounds and display flashes when cassette is not lowered into position even when 5 seconds have elapsed after the cassette was inserted. | Tape is ejected.     |
|                           | Alarm sounds and display flashes when cassette is not raised and ejected even when the eject mode is established and 5 seconds have elapsed.  | Operation stops.     |
| E-15                      | Alarm sounds and display flashes when loading is not completed within 10 sec.   | Tape is ejected.     |
|                           | Alarm sounds and display flashes when unloading is not completed within 10 sec.   | Operation stops.     |
| E-16                      | Alarm sounds and display flashes when sensor LED is disconnected.   | Operation stops.     |
| E-17                      | Alarm sounds and display flashes when condensation has formed.  | (*) Tape is ejected. |
| E-18                      | Alarm sounds and display flashes when tape is slack.  | Operation stops.     |
| E-19                      | Alarm sounds and display flashes when the system control instruction and actual tape feed direction differ for more than 5 sec.               | Operation stops.     |
| E-1C<br>E-21<br>~<br>E-26 | Alarm sounds and display flashes when a failure in malfunction arises in the power supply section.  | Operation stops.     |
| E-1F                      | Alarm sounds and display flashes when the fan inside the power supply box stops operating.  | Operation continues. |
| E-20                      | Alarm sounds and display flashes when a failure or malfunction occurs to the reel transport during high-speed search.                         | Operation stops      |

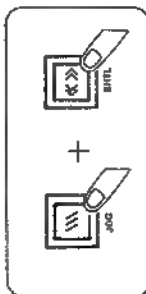
When condensation has formed, the drum rotates in order to remove the condensation. When the condensation is removed, the AUTO OFF lamp goes off, the error display is cleared, and the VTR can be operated again.

# Head Cleaning



- 1 Set the VTR to the stop mode.
- 2 Remove the cassette tape.
- 3 Press the JOG and SHTL buttons together.

The loading post moves in order to facilitate head cleaning.



- 4 Proceed with head cleaning.
- 5 Upon completion of the work, perform one of the following operations.

Handle the parts with the utmost care. For further details, contact your dealer.

- 1) Set the POWER switch to OFF and then back to ON.
- 2) Press the EJECT button.
- 3) Insert a cassette tape.
- 6 This completes the head cleaning process.

# Handling Precautions

## Handling precautions

- Vibration:** Avoid using the unit in a location susceptible to vibration.
- Magnetism:** Do not bring the unit near a magnet.
- Temperature:** Avoid using the unit in extremely hot or cold areas or in direct sunlight. Failure to do so may cause its performance to deteriorate.
  - Operating temperature: +5°C to +40°C
  - (Under no circumstances must the fan area at the back of the ventilation hole section be blocked or covered since the fan serves to safeguard against inside temperature rises.)
- Humidity:** This unit is particularly vulnerable to humidity and moisture. Avoid locations where the humidity is high or where the unit may be exposed to rain.
- Transportation:** Remove the cassette tape from the unit when transporting it from place to place. When disconnecting the power cord from the power outlet, remember to take hold of the power plug (and not the cord itself).

## Installation

- Take the operating environment and installation space into account. Adherence to the points below will ensure that full justice will be done to the unit's excellent quality, and operating and servicing ease.
  - Use the unit on a flat and even surface.
  - Do not place objects on top of the unit.
  - If the unit is to be used on a stand, make sure that the stand is strong and sturdy.
  - To facilitate ventilation and servicing, leave clearances of at least 40 cm behind the unit from a wall or other surface.
  - If the unit is to be used on a desk or other such surface, leave a clearance of at least 20 cm above it in order to facilitate the servicing of the circuit board. There is no need to leave any clearances when mounting the unit in a rack since the unit is pulled out when its circuit boards are to be maintained.

## Maintenance

- Before proceeding with maintenance, set the power switch to OFF and take hold of the power plug to disconnect it from the power outlet.
  - Use a soft cloth to clean the cabinet. With stubborn stains or dirt, use a mild detergent solution, allow a cloth to soak in it, and then wring it out and clean. After having removed the stains or dirt, use a dry cloth to wipe away any moisture.
  - Do not use paint thinners or benzene.

## Storage

- Avoid storing the unit in a location characterized by extremely high or low temperatures.
- Under no circumstances should the unit be left outdoors.
- If there are no plans to use the unit for a prolonged period, set the power switch to OFF and, remembering to take hold of the power plug, disconnect it from the power outlet. This is done to safeguard against accidents and break downs.
- Before storing, always remember to remove the cassette tape if one is still inside the unit.

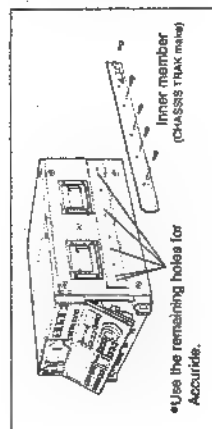
# Rack Mounting

## Note :

Using the optional AU-M60 rack-mounting adaptors, the unit can be housed in a standard IEC 48.2 cm rack. For the mounting rails, either the rails and bracket unit (part no. CC3001-99-0191) made by Chassis Trak or the rails (part no. C-2038-1215) and brackets (part no. BK-2308) made by Accuride are recommended. Consult with your dealer for further details.

### 1 Remove the 6 screws each at the left and right sides of the main unit.

### 2 Attach the inner members



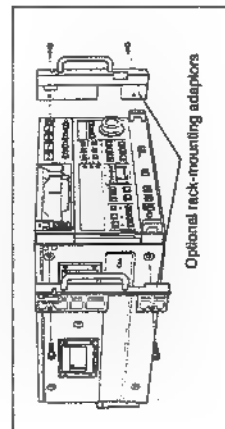
Attach the inner members of the slide rails using the screws which have just been removed. There is a limit to the length of the screws used. If any of the mounting screws have been lost or misplaced, use screws (M4x10) with a length of not more than 10 mm. Screw down the inner members in 4 ■ more places.

### 3 Remove the 4 rubber feet on the unit's bottom panel.

### 4 Attach the outer member brackets to the rack.

Check that the height at the left and right ■ the same.

### 5 Attach the optional AU-M60 rack-mounting adaptors.



### 6 Check that the unit slides properly in and out.

Mount the unit in the rack, and check that it slides smoothly on the rails.



## INNER SWITCH SETTING (INITIAL MODE)

| Circuit Board | Ref. No. | NAME        | Shipment Mode |            |          |            |
|---------------|----------|-------------|---------------|------------|----------|------------|
|               |          |             | NTSC          |            | PAL      |            |
|               |          |             | AU-65H        | AU-63H/62H | AU-65H   | AU-63H/62H |
| W1            | SW1      | COMB        |               |            |          |            |
|               | SW6      | CNC         |               |            |          |            |
|               | SW7      | 15LP        | ON            | ON         | ON       | ON         |
|               | SW8      | 7L.BLK      |               |            | ON       | ON         |
|               | SW201    | FR DET      | ON            | ON         | ON       | ON         |
|               | SW203    | VIDEO POS   | ■             | 6          | 8        | 8          |
|               | SW4      | V.BLK1      | ALL OFF       | ALL OFF    | ALL OFF  | ALL OFF    |
| W2            | SW5      | V.BLK2      |               |            | ALL OFF  | ALL OFF    |
|               | SW200    | —           | OFF           | OFF        |          |            |
|               | SW201    | —           | ON            | ON         | ON       | ON         |
| W3            | SW800    | VISC CONT   |               |            | ON       | ON         |
|               | SW201    | —           | NON TEST      |            | NON TEST |            |
|               | SW202    | —           | NON TEST      |            | NON TEST |            |
|               | SW304    | Y SUPER LIM | ON            | ON         | ON       | ON         |
|               | SW305    | A EQ VAR    |               |            |          |            |
|               | SW306    | A EQ SW     |               |            |          |            |
|               | SW704    | C SUPER LIM | OFF           | OFF        | ON       | ON         |
| W4            | SW1      | VIDEO/SYNC  | VIDEO         |            | VIDEO    |            |
|               | SW101    | WOBBLING    |               |            |          |            |
|               | SW201    | YC CONT     | NORM          |            | NORM     |            |
| W5            | SW701    | 2.7MHz GEN  | NORM          |            | NORM     |            |
|               | SW3      | AUTO H      | UP SIDE       |            | UP SIDE  |            |
|               | SW700    |             |               | AUTO (63)  |          | AUTO (63)  |
| B1            | SW7      | SELECTION   | ALL OFF       | ALL OFF    | ALL OFF  | ALL OFF    |
|               | SW3      | PLAY DELAY  | 0             | ■          | 0        | 0          |
|               | SW1      | SYPER       | OFF           | OFF        | OFF      | OFF        |
| B2            | SW2      | SYNC HRON1  | ON            |            | ON       |            |
|               | SW5      | ID PRESET   | OFF           | OFF        | OFF      | OFF        |
|               | SW7      | VITC REC    | ON            | ON         | ON       | ON         |
|               | SW1      | REG/PRE     | REGEN         | REGEN      | REGEN    | REGEN      |
|               | SW4      | REC RUN     | REC RUN       | REC RUN    | REC RUN  | REC RUN    |

| Circuit Board      | Ref. No. | NAME       | Shipment Mode |            |        |            |
|--------------------|----------|------------|---------------|------------|--------|------------|
|                    |          |            | NTSC          |            | PAL    |            |
|                    |          |            | AU-65H        | AU-63H/62H | AU-65H | AU-63H/62H |
| FRONT MID          |          | INT-EXT    | INT           |            | INT    |            |
|                    |          | TC-UB      | TC            |            | TC     |            |
|                    |          | LTC-VITC   | LTC           |            | LTC    |            |
|                    |          | DF-NDF     | DF            |            | DF     |            |
|                    |          | PREROLL    | 5             | 5          | 5      | ■          |
| PULL OUT DRAWER VR |          | Pb         | CLICK         | CLICK      | CLICK  | CLICK      |
|                    |          | Pr         | CLICK         | CLICK      | CLICK  | CLICK      |
|                    |          | Y          | CLICK         | CLICK      | CLICK  | CLICK      |
|                    |          | SET UP     | CLICK         | CLICK      | CLICK  | CLICK      |
|                    |          | CHROMA     | CLICK         | CLICK      | CLICK  | CLICK      |
|                    |          | HUE        | CLICK         | CLICK      | CLICK  | CLICK      |
|                    |          | REM-LOCAL  | LOCAL         | LOCAL      | LOCAL  | LOCAL      |
|                    |          | SYNC       |               |            |        |            |
|                    |          | BURST      |               |            |        |            |
|                    |          | SCH ADJ.   |               |            |        |            |
|                    |          | HEAD PHONE | MIN           | MIN        | MIN    | MIN        |
|                    |          | AUDIO MONI | ST            | ST         | ST     | ST         |
|                    |          | FMLINEAR   | LINEAR        | LINEAR     | LINEAR | LINEAR     |
|                    |          | MODE       | EE            |            | EE     |            |
|                    |          | HEAD       | R/P           |            | R/P    |            |
|                    |          | INPUT      | COMP          |            | COMP   |            |
|                    |          | CONTROL    | LOCAL         | LOCAL      | LOCAL  | LOCAL      |
|                    |          | SHTL SEL   |               | VAR (63)   |        | VAR (63)   |

| Circuit Board | Ref. No. | NAME        | Shipment Mode |            |        |            |
|---------------|----------|-------------|---------------|------------|--------|------------|
|               |          |             | NTSC          |            | PAL    |            |
|               |          |             | AU-65H        | AU-63H/62H | AU-65H | AU-63H/62H |
| AUDIO IN/OUT  | SW101    | LINE IN     | +4dBu         |            | +0dBu  |            |
|               | SW301    | LINE IN     |               |            |        |            |
|               | SW102    | LINE IN     | +4dBu         | +4dBu      | +0dBu  | +0dBu      |
|               | SW302    | LINE IN     | +4dBu         | +4dBu      | +0dBu  | +0dBu      |
| VIDEO IN/OUT  |          | CH1 - 4Ω    |               |            |        |            |
|               |          | CH3/4 SERE  |               |            |        |            |
|               | SW1      | VIDEO 75Ω   | ON            |            | ON     |            |
|               | SW2      | REF 75Ω     | ON            | ON         | ON     | ON         |
|               |          | COMP-CTCM   |               |            |        |            |
|               | SW3      | PB LEV      | NORM          |            |        |            |
|               | SW4      | PR LEV      | NORM          |            |        |            |
| FRONT V/F     | SW5      |             |               |            |        |            |
|               | SW6      | PB LEV      |               |            |        |            |
|               | SW7      | PR LEV      |               |            |        |            |
|               |          | AUDIO PB 3  | PRESET        | PRESET     | PRESET | PRESET     |
|               |          | AUDIO PB 4  | PRESET        | PRESET     | PRESET | PRESET     |
|               |          | YC DELAY    | PRESET        | PRESET     | PRESET | PRESET     |
|               |          | LIMITER     | OFF           |            | OFF    |            |
|               |          | NR          | OFF           | OFF        | OFF    | OFF        |
|               |          | SYNC INT    | AUTO          |            | AUTO   |            |
|               |          | CF          | 4F            | 4F         | 8F     | 8F         |
|               |          | VIDEO IN    | COMP          |            | COMP   |            |
|               |          | VIDEO I/O   | AUTO          |            | AUTO   |            |
| FRONT UP      |          | REMOTE      | 2 (8P)        | 2 (8P)     | 2 (8P) | 2 (8P)     |
|               |          | REC INH     | OFF           |            | OFF    |            |
|               |          | MIXING      |               |            |        |            |
|               |          | TC TRACK    |               |            |        |            |
|               |          | POWER SW    | OFF           | OFF        | OFF    | OFF        |
|               |          | AUDIO VR    | PUSH          | PUSH       | PUSH   | PUSH       |
|               |          | VIDEO-CH4   | VIDEO         | VIDEO      | VIDEO  | VIDEO      |
|               |          | VIDEO       | PUSH          | PUSH       | PUSH   | PUSH       |
|               |          | TRACKING    | CLICK         | CLICK (62) | CLICK  | CLICK (62) |
|               |          | AUDIO METER | LINEAR        | LINEAR     | LINEAR | LINEAR     |

## TECHNICAL EXPLANATIONS

This section describes a new features as a basic guidance.

## 1. Digital 3 Dimensional TBC using Field Memory

The newly developed models AU-65H/63H/62H incorporate a "3 Dimensional TBC" which helps to compensate for the dropout which occurs due to, for example, damage to the recording medium.

Using conventional line-compensation techniques, when a large dropout lines are replaced with the line prior to the dropout (Figure 1-1a) which results in an imperfect picture. The "3D" TBC design incorporates a gate array which replaces the current data with the previous field data which existed before the dropout occurred (Figure 1-1b).

Dropouts of 1H or less are line-compensated by replacing the dropout with the average of the data in previous and subsequent lines. (Figure 1-1c). If a dropout occurs in the first line of a field the picture will become completely dark as in conventional line compensation. This development makes it possible to more accurately approximate the original image.

### 1-2. Features

- 1) Line or Field compensation is selected according to the amount of dropout compensation needed for optimum picture quality.
- 2) When dropouts are line-compensated the dropout point is averaged in order to improve diagonal line compensation.
- 3) The dropout signal is coded into 8 bit data and superimposed onto the video signal which makes it possible to reduce the number of field memories. Each field memory consists of 4 bits.
- 4) When the REF and input signals are synchronized in "Non-V float" mode, the output signal is displaced by 4 horizontal lines with respect to REF (in the case of the AU-65/63/62 it is displaced by 12H)
- 5) The signal is tailored according to the dropout with respect to field compensation. In the event of a large dropout, a delay is added after the line compensation is complete. This delay is dependent upon the width of the previous field and is required to make allowance for the time taken for the Automatic Frequency Control (AFC) to reset after the dropout has occurred. Data writing to the field memory will eventually be affected since the AFC is disturbed following dropout occurrence.

### 1-3. Construction

The "3D" TBC can be divided into the following 4 blocks: (See Figure 1-2)

- Y Signal Write Control
- Y Signal Read Control
- C signal Write Control
- C Signal Read Control

#### 1) Y signal Write Control

When a dropout occurs, the signal is converted into a dropout code which is output to the field memory as a video signal. Both write-timing for the field memory (V reset/H reset) and data inhibit are controlled when a dropout occurs. Furthermore, if there is a dropout within the first 22 lines of the picture for which line compensation is carried out, the previous lines become dark due to V blanking. Therefore, control is always achieved for field compensation with no line compensation.

#### 2) Y Signal Read Control

Read control is mainly carried out by the new gate array, IC33 (MB606905U) and is used for both Y and C signals. Data before 1H, current data and data after 1H are input to this array which calculates the average value according to the presence or absence of dropout. The field memory read timing and line memory write clock are also controlled by this block so that no dropout data is written into the line memory from this block.

#### 3) C Signal Write Control

The basic operation is the same as for Y signal write control. However, the compressed C signal is expanded and separated into Pr and Pb signals. For this compressed signal, the respective 400 data is written to the line memory for 2H at a clock rate of 13.5MHz. This data is simultaneously read out at 6.75MHz. After this signal is compressed into a dot sequence it is output to the field memory.

#### 4) C Signal Read Control

IC34 (MB606905U) handles C signal read control. Pr and Pb are read alternately from the field memory with a 13.5MHz clock, which extends the signal. Since a chroma signal is compressed into a dot sequence, if a dropout occurs in Pb or Pr then these must also be processed as dropouts.

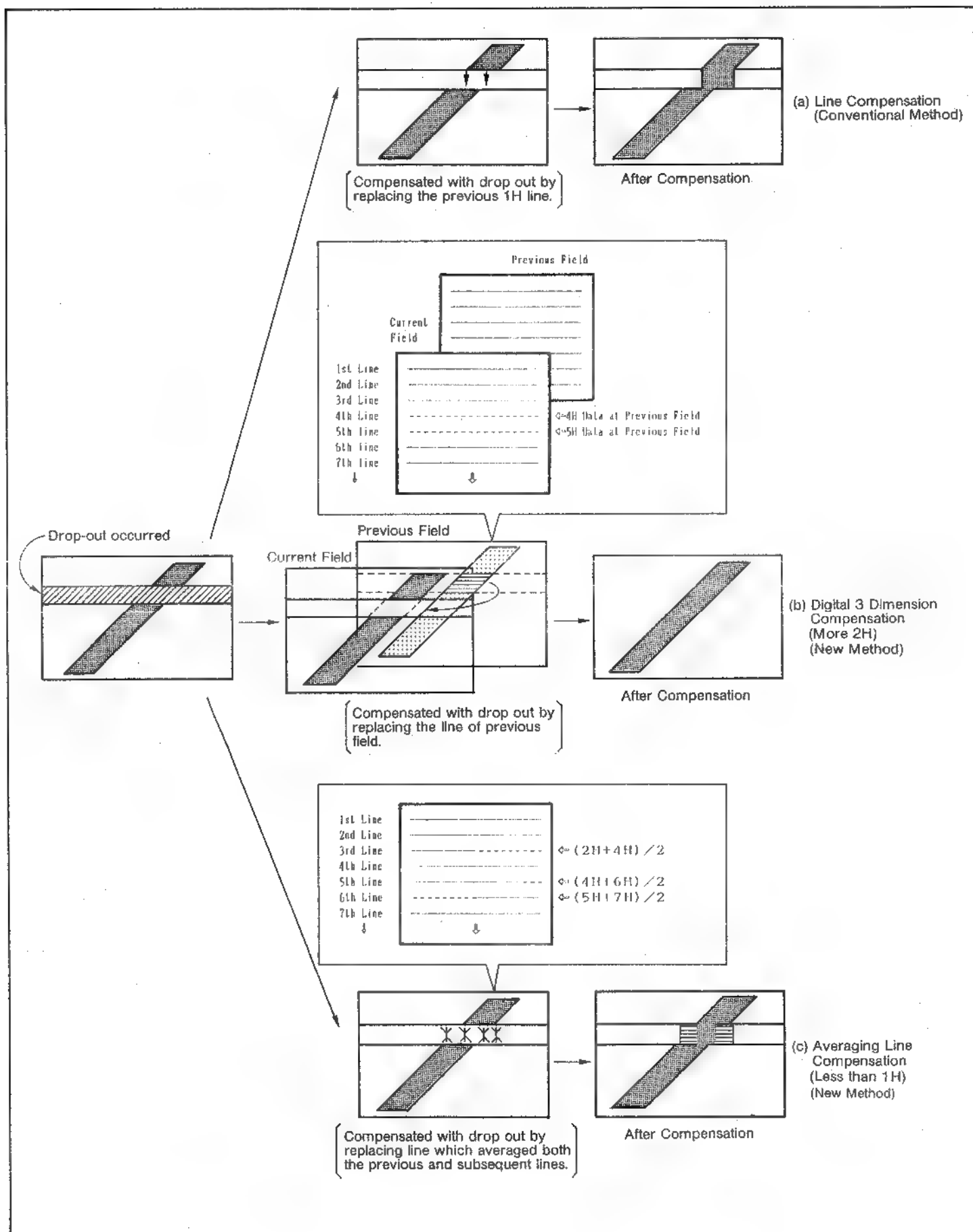


Figure 1-1. Dropout Compensator

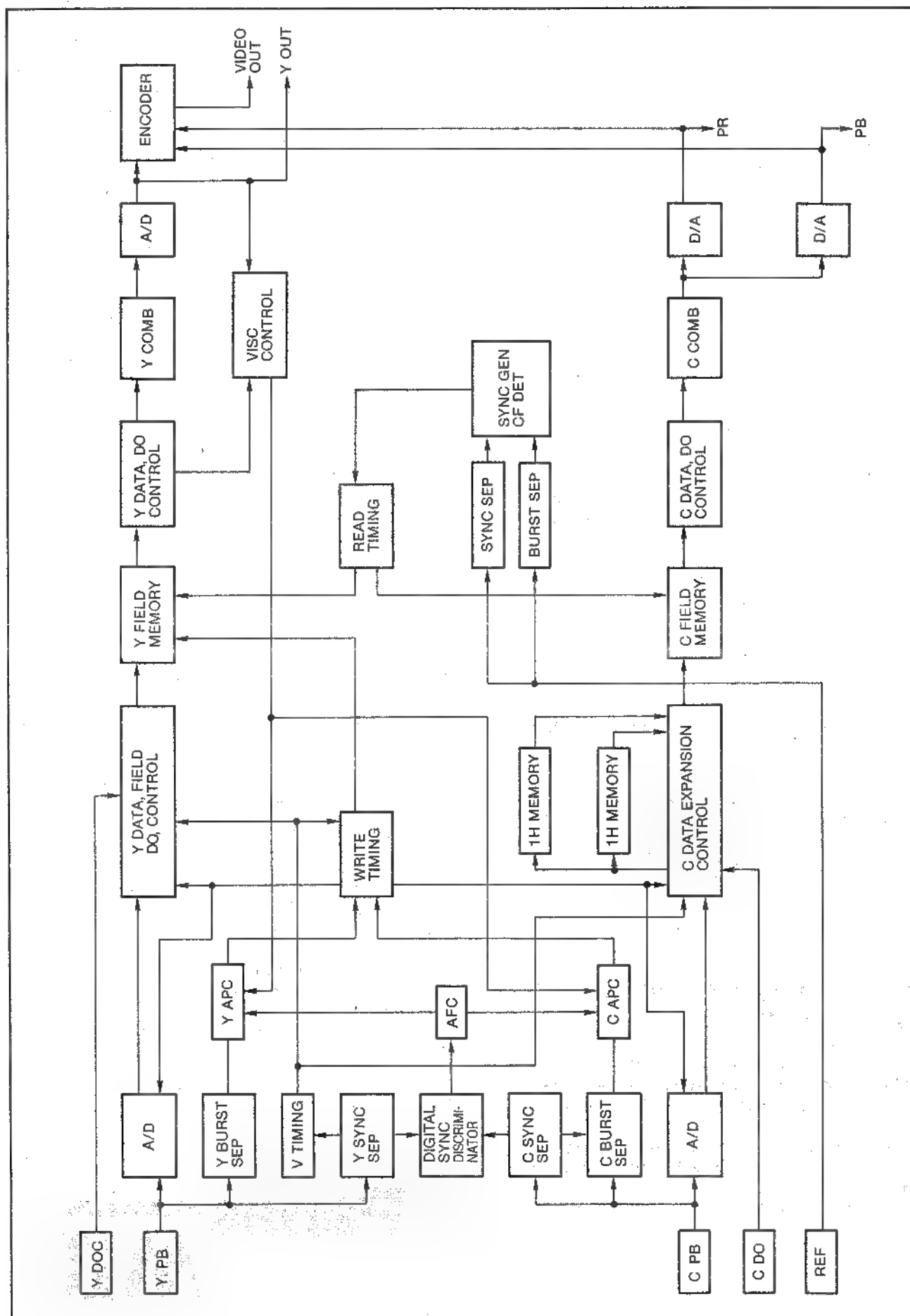


Figure 1-2. Block Diagram of Field TBC.

## 2. Picture in Picture (P in P) Section

The P in P facility incorporated into the AU-65H allows either the incoming video signal or playback signal from tape to be reduced to one-third of its normal size and viewed (as a "sub-picture") on any one of the four corners of the monitor screen (termed the "main-picture") as shown in Figure 2-1. This function permits viewing of both the incoming and playback signals at the same time which would allow, for example, two machine editing to be carried out using a single monitor.

This P in P signal is available from the Video 3 (SUPER) socket.

A simplified block diagram of the P in P system is shown in Figure 2-2.

### 2-1. Choice of Sub-picture and Main -Picture

The incoming video signal, separated by the DECODER into Y, Pb and Pr, is sent to the SUB-ENCODER on the "SENC and P in P" board where it is encoded into a composite video signal (P IN P VIDEO) as shown in Figure 2-3.

The P IN P VIDEO signal and the playback video signal (P SIG) are switched in IC1, this determines which of the signals is the "main picture" and which is the "sub picture". Pushing the PLAYER button on the front panel, alternates between the sub and main pictures.

### 2-2. Sub Picture Decoder and Sync Separator

A part of the composite sub-picture signal from IC1 passes through FL3 via a 1.3MHz low-pass filter creating the Y signal - the remainder of the signal is sent to IC2. In IC2, Pb and Pr signals are decoded and H sync and V sync are separated - these signals then pass on to IC4 (see Figure 2-4).

### 2-3. Main Picture Sync Separator and FSC Signal Generator

The main-picture composite video is processed by IC3 which separates the H and V sync signals and generates an FSC signal which is synchronized to the burst signal (see Figure 2-5).

The FSC signal is applied to IC4 (sub-picture signal processing circuit) and is used to generate the clock for the digital encoder.

## 2-4. Sub-Picture Signal Processing

### a) Sampling

Y, Pb and Pr signals relating to the sub-picture are reduced to one-third size by IC4. Shrinkage of the horizontal axis is performed by multiplying the ratio of the data read frequency to the sampling frequency by a factor of three. The vertical axis is reduced by sampling one horizontal line out of every three.

This P in P system samples Y, Pb and Pr signals from different horizontal lines.

Y signal data is sampled on the first horizontal line, Pb and Pr data is sampled on the following line using a time-sharing process. No signal data is sampled on the third line (see Figure 2-6).

### b) Reading the Sub Picture Signal Data

The digital data from the A/D converter is arranged in the memory control block and written to the video RAM. This data is then read out when the scanning point on the monitor screen reaches the sub-picture position. The main picture sync signals (PVD, PHD) are used to insert the sub picture into the main picture at the desired position.

The video RAM data is sent to a latch circuit which adjusts the timing of Y, Pb and Pr signals. Before the Pb and Pr signals undergo D/A conversion they are digitally modulated into a C signal, then the Y and C signals are D/A converted separately (see Figure 2-7). Digital encoding is performed by the FSC signal synchronized to the main picture burst signal to adjust the chroma phase of the sub picture with that of the main picture.

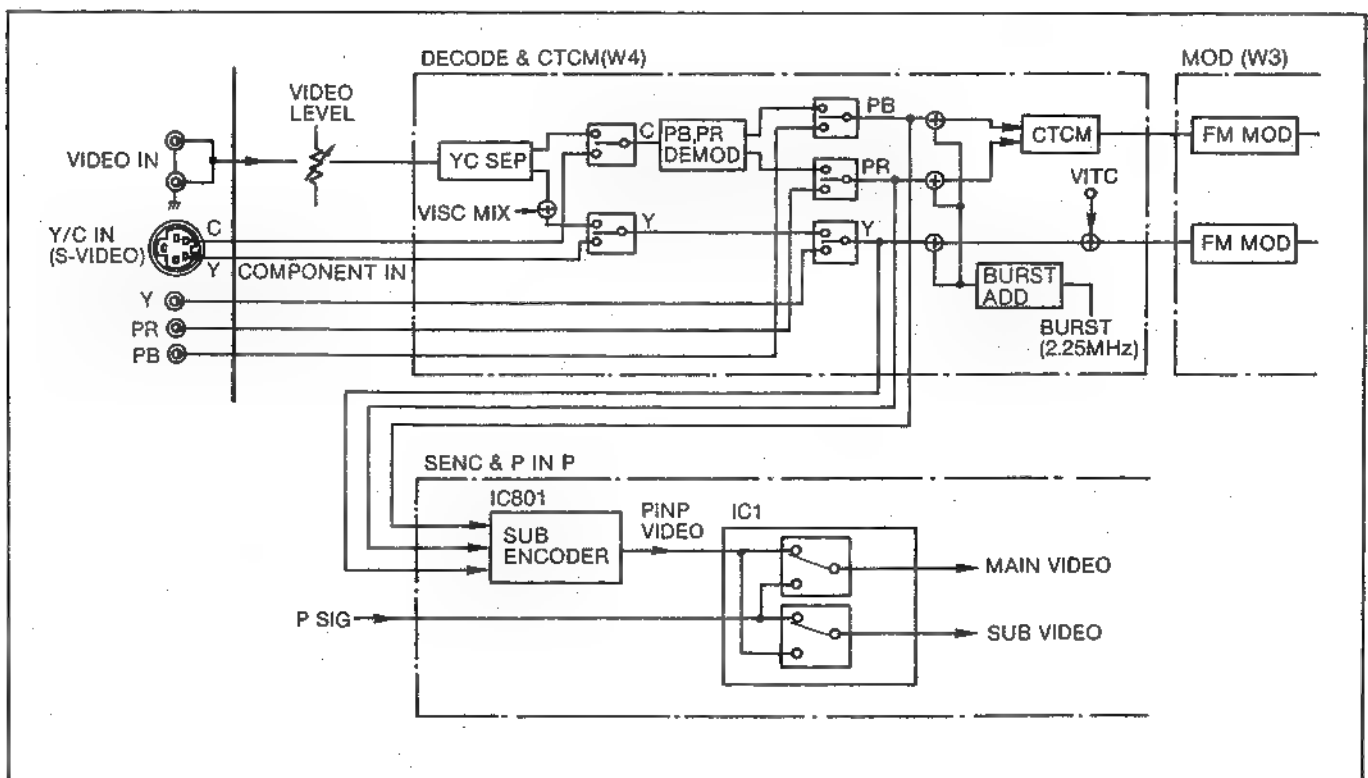
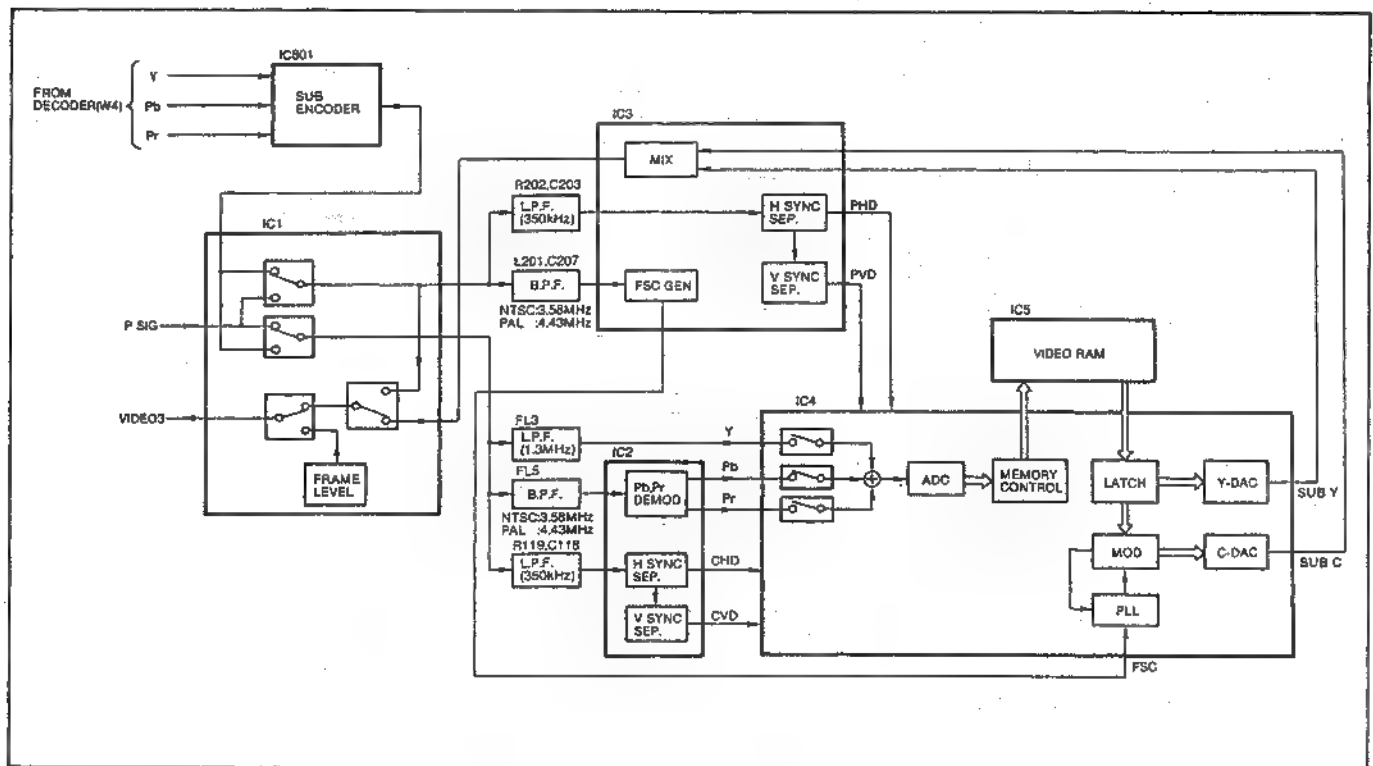
## 2-5. Insertion of Sub Picture

Y and C signals relating to the sub-picture are converted to analog and mixed by IC3 to produce a composite signal. The sub picture and main picture signals are then switched in IC1 by the Switching Signal (SSW) from IC4 which is synchronized to the sub picture data.

A white frame is added to the sub picture. This signal (FRAME LEVEL) is produced by IC1 and switched with the sub picture and main picture signals by the switching signal (WSW) from IC4 (see Figure 2-8).



Figure 2-1.



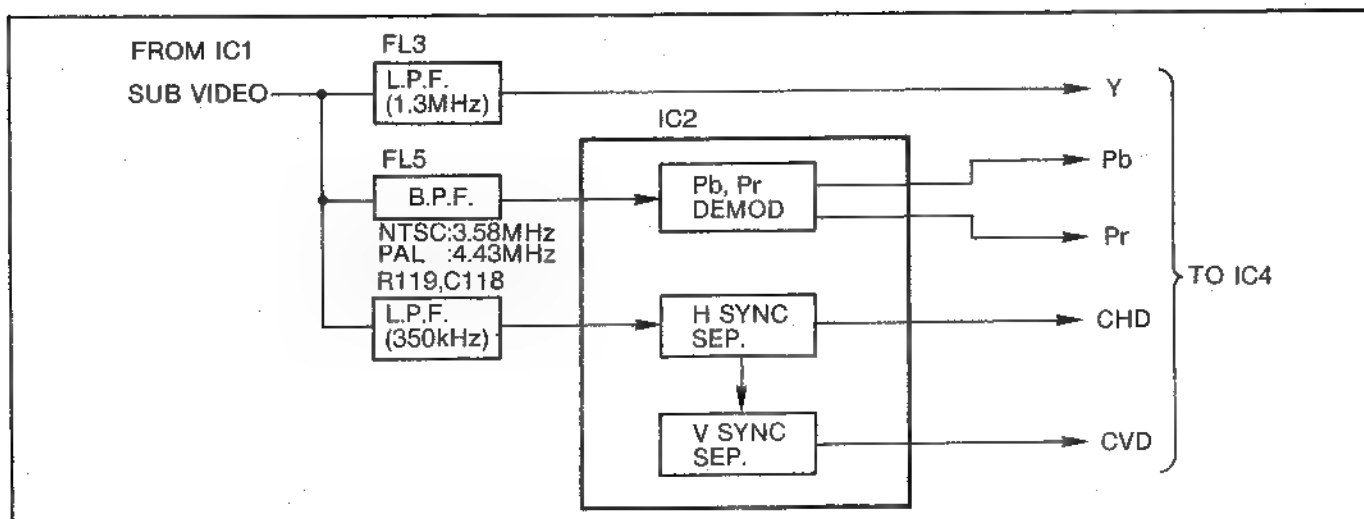


Figure 2-4.

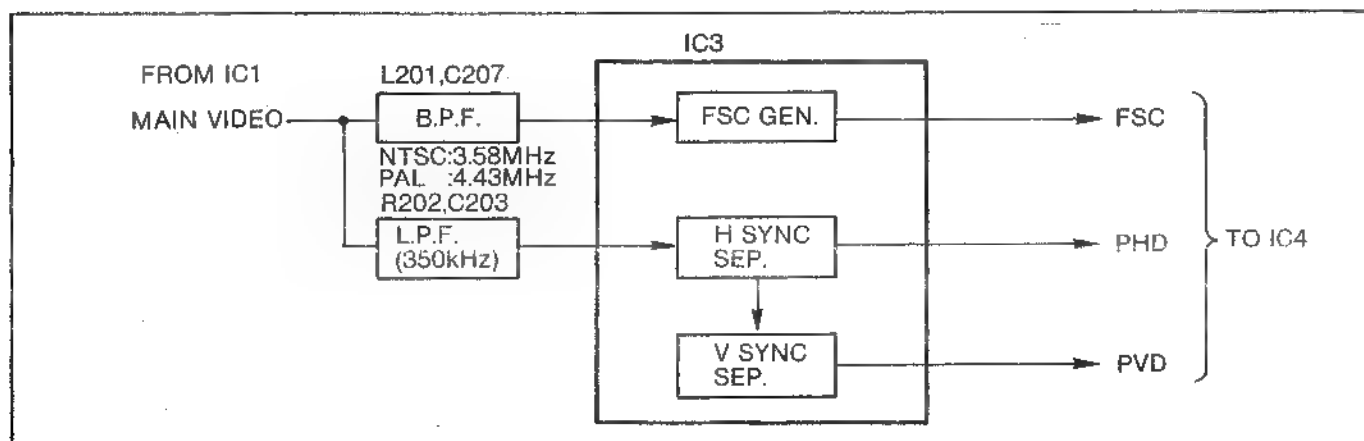


Figure 2-5.

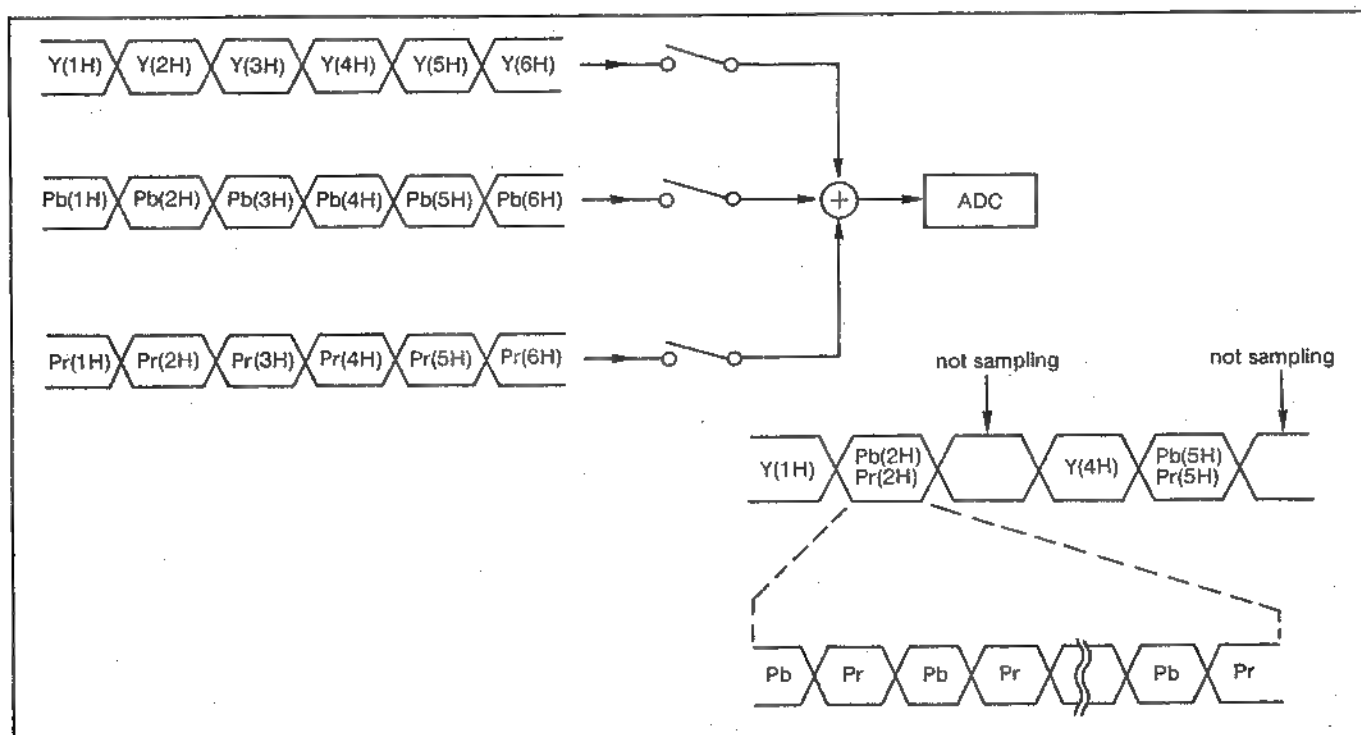


Figure 2-6.



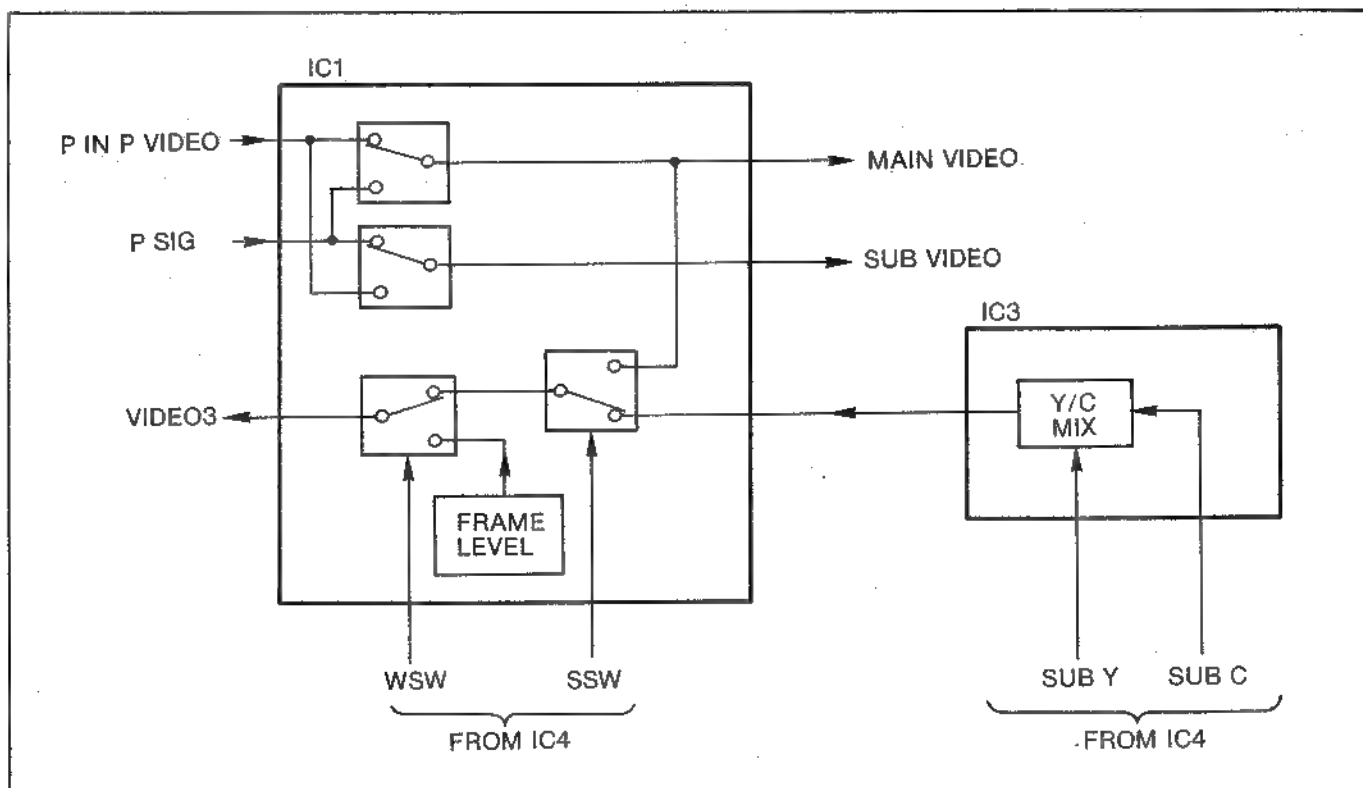


Figure 2-8.

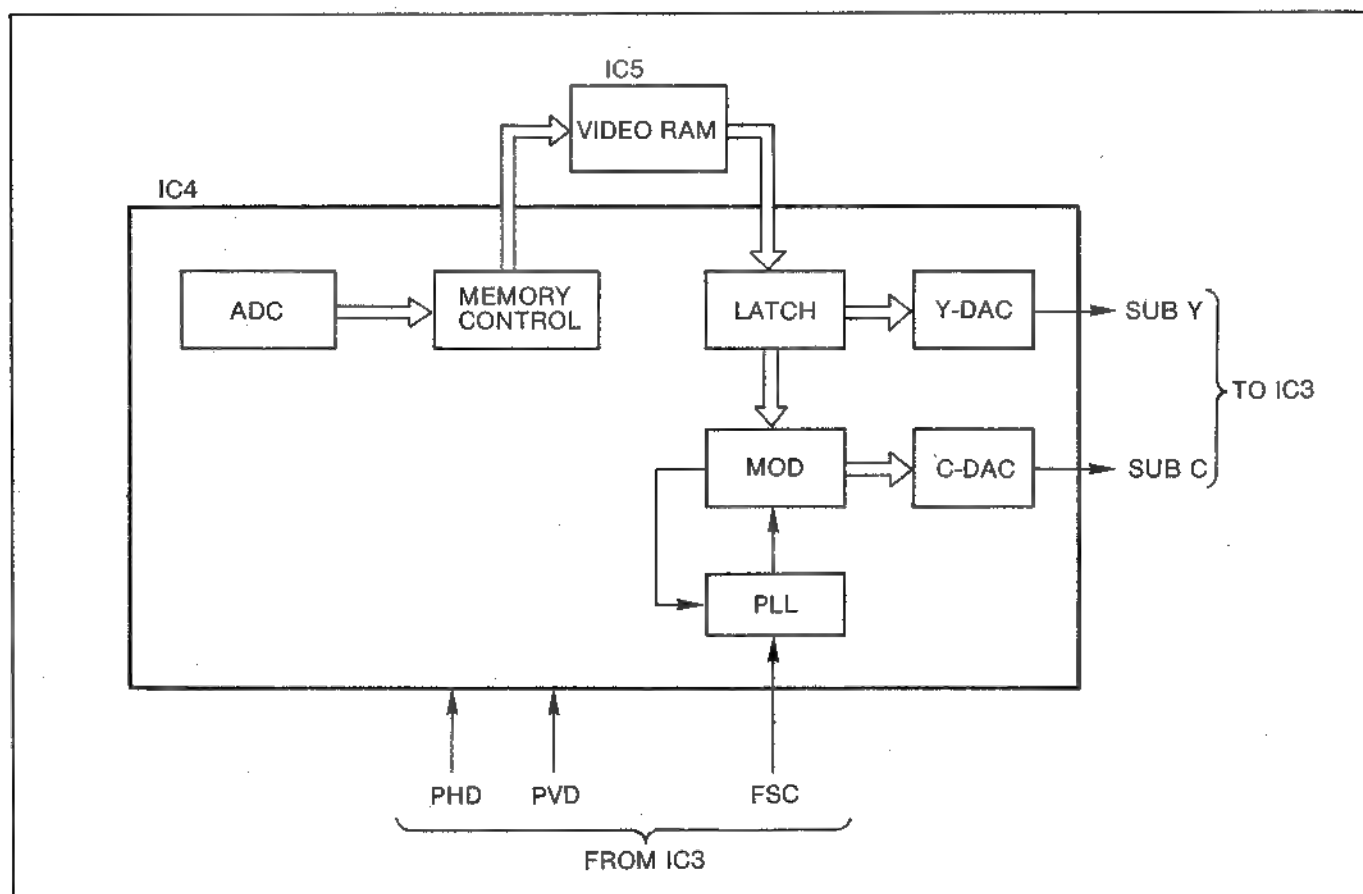


Figure 2-7.

### 3. Wide size 16:9 ratio video

#### 3-1. General

The AU-65H/63H and 62H are equipped with a 16:9 picture ratio function which will allow them to be used in future High Vision/wide video broadcasting applications. High Vision broadcasting is slowly coming into everyday use for example, when converting 16:9 video into standard 4:3 video using a digital converter such as the "Muse Converter" the signal will be recorded onto these machines complete with associated wide size information.

Upon playback, the machine feeds the wide size information (superimposed upon the C signal) to a suitable monitor and a "wide flag" signal automatically selects wide mode. See Figure 3-1.

This video system consists of two main sections, Wide Video Detection and Wide Input/Output Select.

#### 3-2. Wide Size Video Detection

In the MII VTR, wide size video information (the "wide flag") is recorded onto tape to provide wide picture recognition on compatible equipment. The wide flag consists of 5v DC superimposed upon lines 12 and 255 of the Pr signal (PAL) and lines 15 and 277 of the Pr signal (NTSC). When a tape containing this signal is replayed, 5v is superimposed on the C signal (video output S1) and sent to the TV monitor for auto wide size selection (see Figures 3-2, 3-3).

#### 3-3. Wide Input/output Selection

The wide size input and output information can be selected on the set-up menu (Item 1014 - wide input select, Item 1015 - wide output select).

"Wide Input Select" determines whether or not the wide size video information contained in the C signal on video input S1 is recorded.

"AUTO" - wide size video information is automatically superimposed onto the C signal (output S1) when there is wide information on the tape.

"NORMAL" - wide size information is not superimposed on output S1.

"WIDE" - continuously superimposes the wide size information onto the C signal (output S1).

Note: Connection S1 should always be used when dubbing material containing wide size information from one machine to another. Attempting to dub using component Y, Pb and Pr connections may result in errors as the signal by passes the wide input/output select on the set-up menu.

#### 3-4. Wide Size Video Y/C Connectors

Input: S1 VIDEO IN

Output: S1 VIDEO OUT

Note: When replaying or recording wide size video the VTR lights the LED with the word "WIDE" on the front panel.

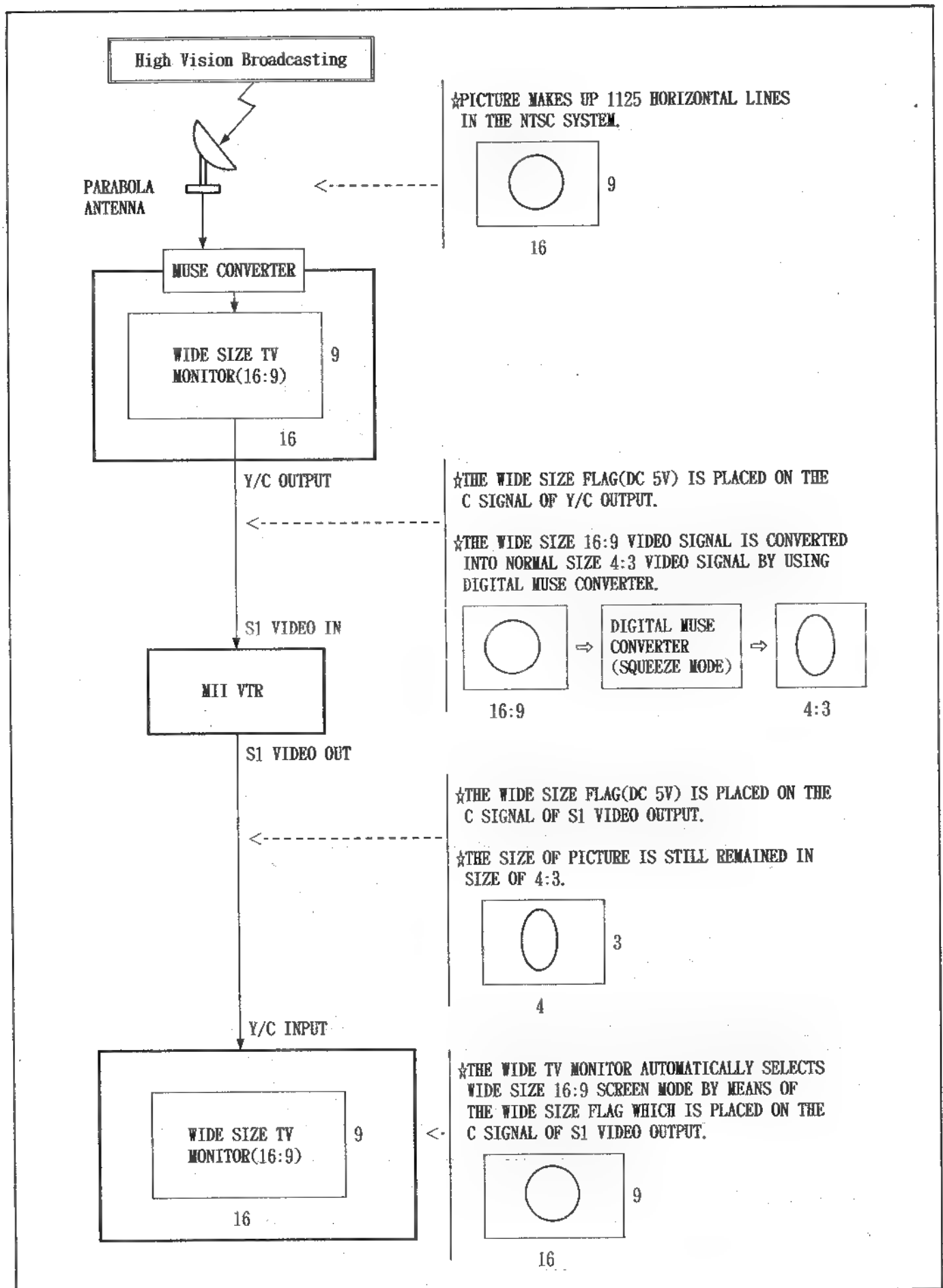


Figure 3-1. General of wide Size System.

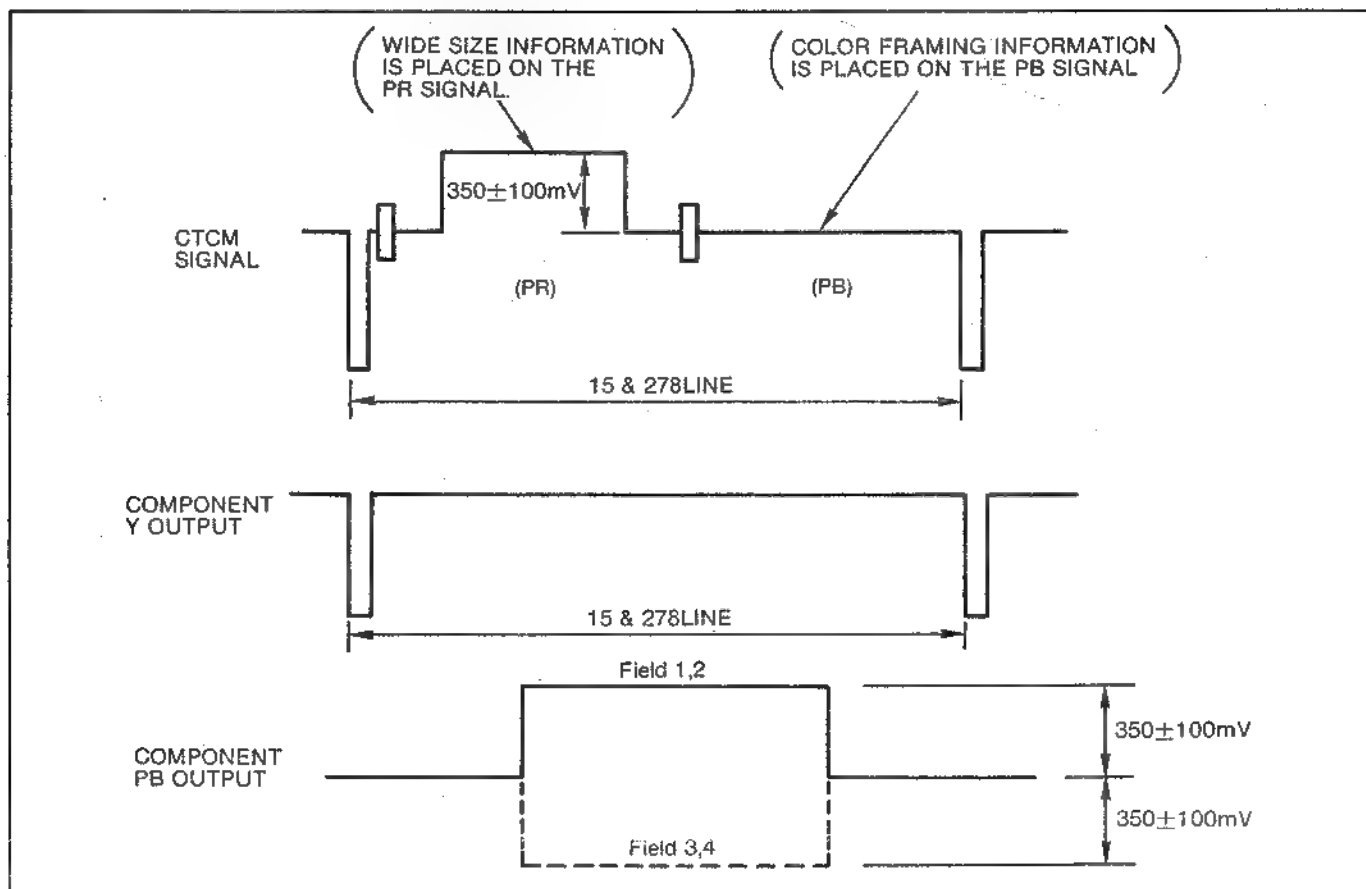


Figure 3-2. Wide Size Flag(NTSC System)

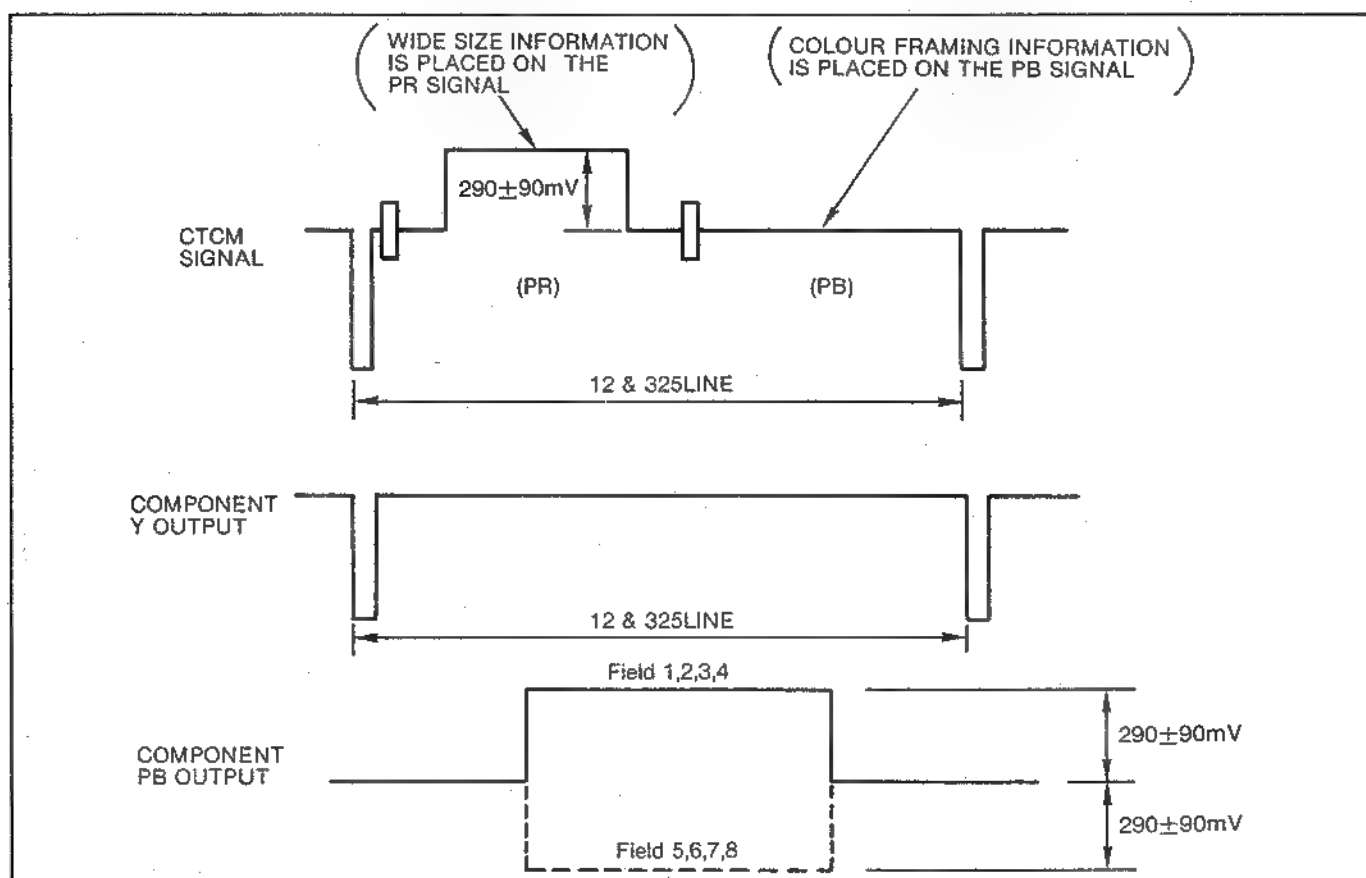


Figure 3-3. Wide Size Flag(PAL System)

## ELECTRICAL ADJUSTMENTS

This section covers the electrical adjustment.

### **Note :**

1. Some preference switches are located on printed circuit boards within the unit. Be sure to turn off the power prior to opening the unit, before changing the position of any switch, and especially before removing or reinserting any circuit board.
2. Pre-heat the unit over two hours before the electrical adjustment.
3. After servicing and adjustment, see to it that all parts such as insulation barriers, insulators, shields, jumper wires, and wiring harnesses are properly re-installed as originally found.

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## SAFETY PRECAUTIONS

### GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

### LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M ohm and 5.2 M ohm. When the exposed metal does not have a return path to the chassis, the reading must be  $\infty$ .

### LEAKAGE CURRENT HOT CHECK

(See Figure 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k ohm, 10 watts resistor, in parallel with a 0.15 $\mu$ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 millamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

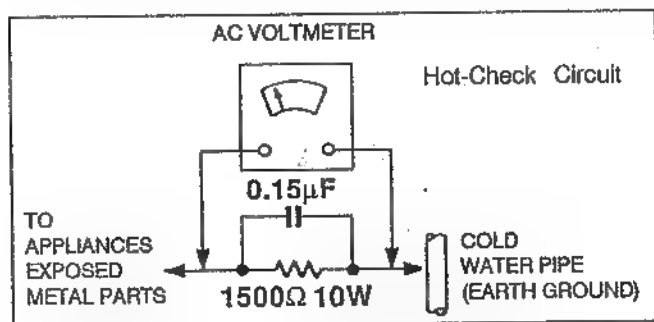


Figure 1

### ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as anti-static can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.  
**CAUTION:** Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

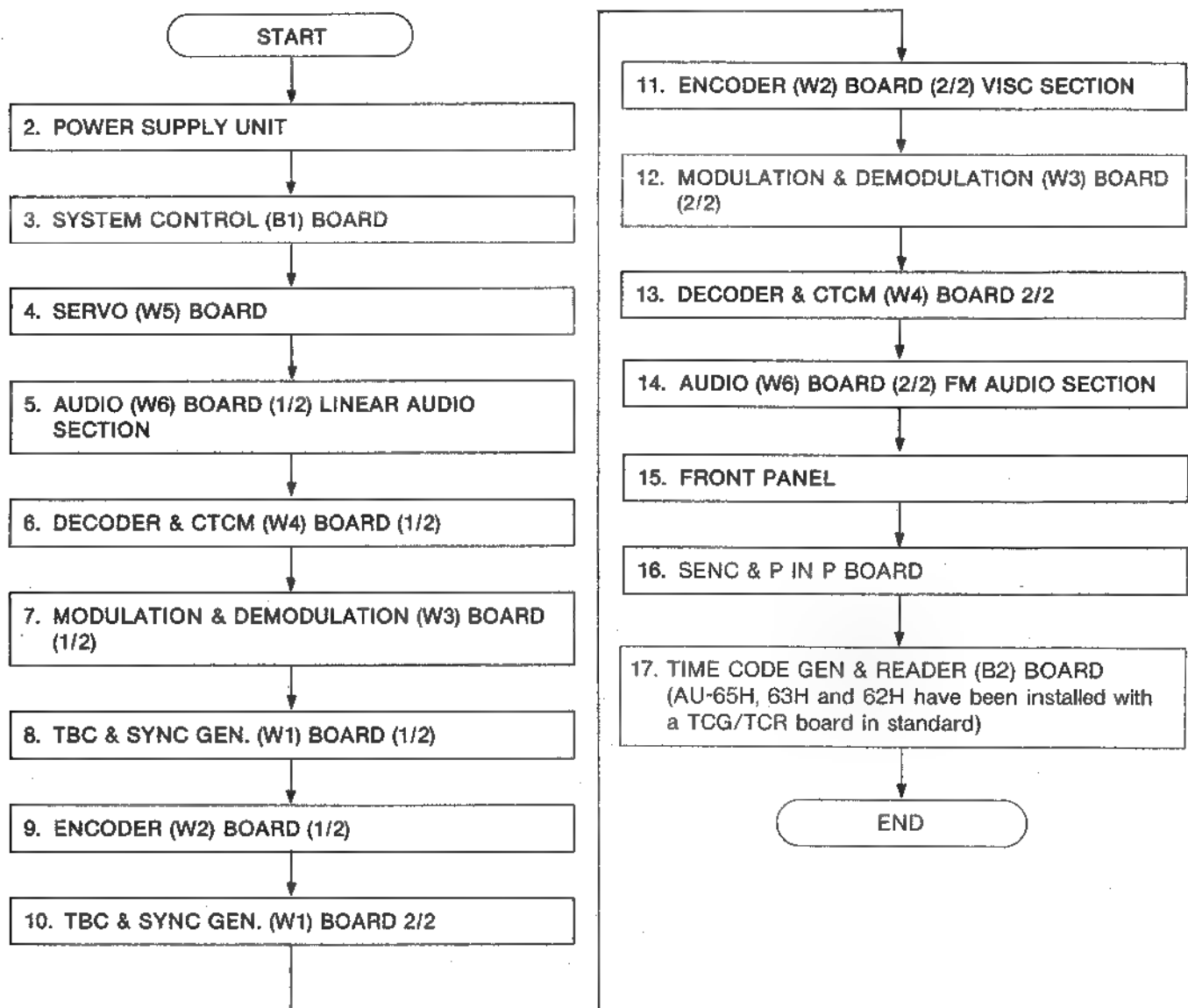
# 1. INFORMATION FOR ELECTRICAL ADJUSTMENT

This section describes adjustment procedures and methods of AU-65/63/62 and AU-65H/63H/62H. Refer to following information before electrical adjustments.

## 1-1. MAIN ADJUSTMENT FLOWCHART

- 1) This Electrical Adjustment Procedures are common for the following 6 models, they are AU-65/63/62 and AU-65H/63H/62H. THE correspond model is mentioned in the top of the each adjustment.
- 2) It is important to adjust each according to the correct steps which are shown as "Main Adjustment Flowchart" at below and "Section Adjustment Flowchart" at the top page of the each section.

## MAIN ADJUSTMENT FLOWCHART



## 1-2. RECOMMENDED TEST AND SERVICE EQUIPMENT

| PART NO.                     | N A M E   | REMARK  |
|------------------------------|---|---|
| TSG-131 (※ 1)<br>(OPTION 04) | COMPOSITE / COMPONENT / YC / Y CTCM<br>SIGNAL GENERATOR | TEKTRONIX   |
| 1750                         | SCH METER (WFM, SCH, VECTOR etc.) FOR NTSC              | TEKTRONIX   |
| 1751                         | SCH METER (WFM, SCH, VECTOR etc.) FOR PAL               | TEKTRONIX   |
| -----                        | DIGITAL VOLT METER                                      | -----   |
| -----                        | FREQUENCY COUNTER                                       | 1mHz Range ~                                      |
| -----                        | DUAL TRACE OSCILLOSCOPE                                 | Frequency bandwidth more<br>than 100 MHz          |
| -----                        | VTVM (ACVM)      Frequency Band width<br>4Hz ~ 500KHz   | Sound Technology or<br>Audio Precision equivalent |
| -----                        | SPECTRUM ANALYZER                                       | Frequency bandwidth<br>10 Hz ~ 120 MHz            |
| -----                        | SINEWAVE SIGNAL GENERATOR                               | Frequency bandwidth<br>20 MHz                     |
| VFK0132                      | TENVELOMETER  | TENDEL  |
| VFM7089EAG (※ 2)             | ALIGNMENT TAPE FOR NTSC MODEL                           | (Large cassette)                                  |
| VFM7189EG (※ 2)              | ALIGNMENT TAPE FOR PAL MODEL                            | (Large cassette)                                  |
| ET-100YC                     | S-VIDEO/BNC ADAPTOR                                     | -----   |
| VFK0601                      | EXTENDER BOARD  | FOR B1 AND B2 BOARDS                              |
| VFK0600                      | EXTENDER BOARD  | FOR W1 TO W6 BOARDS                               |

### NOTE

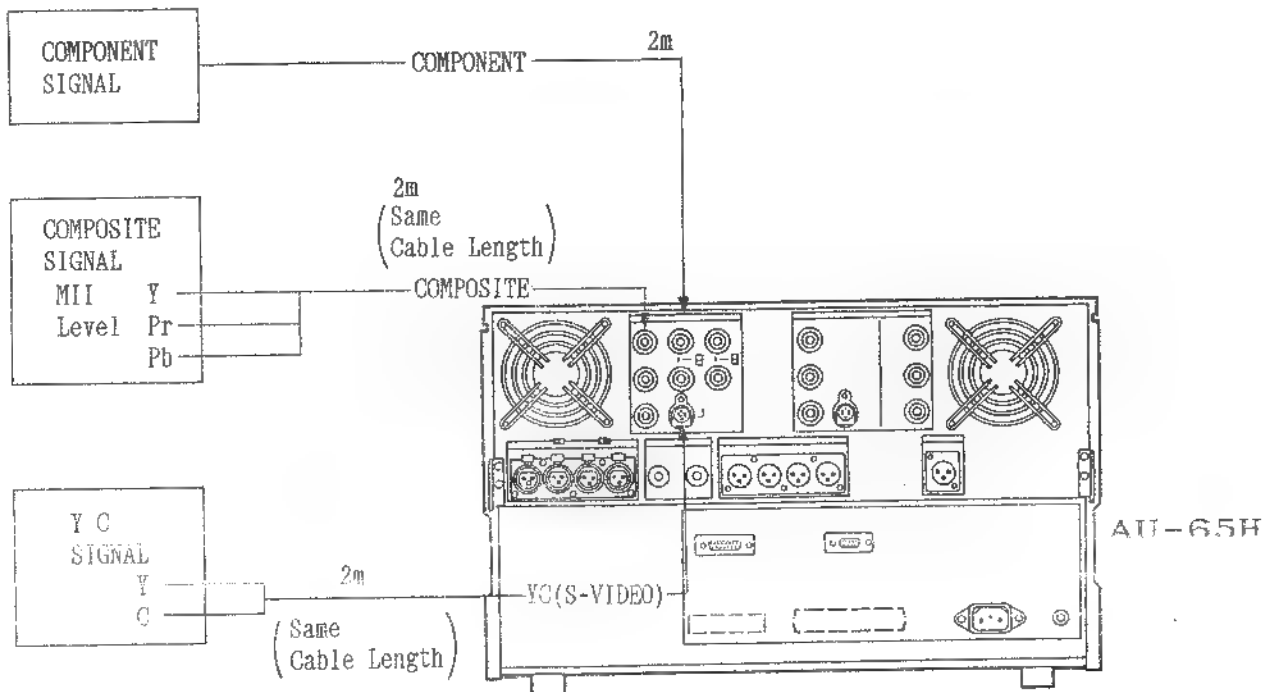
※1. The TSG-131 Multiformat Signal Generator is mainly classified into four ranks by changing with the options. The option 01 and 04 are available for Panasonic MII VTR adjustment due to setting the video output to the Panasonic MII levels. Thus the option 01 is used for almost the electrical adjustments. The option 04 is recommended and used for all the electrical adjustments or precision measurements. The main differences between option 01 and 04 are listed as next.

- a. The option 04 outputs CF (colour framing) signal.
- b. The option 04 outputs composite sync signal.
- c. The option 04 outputs VIR signal.

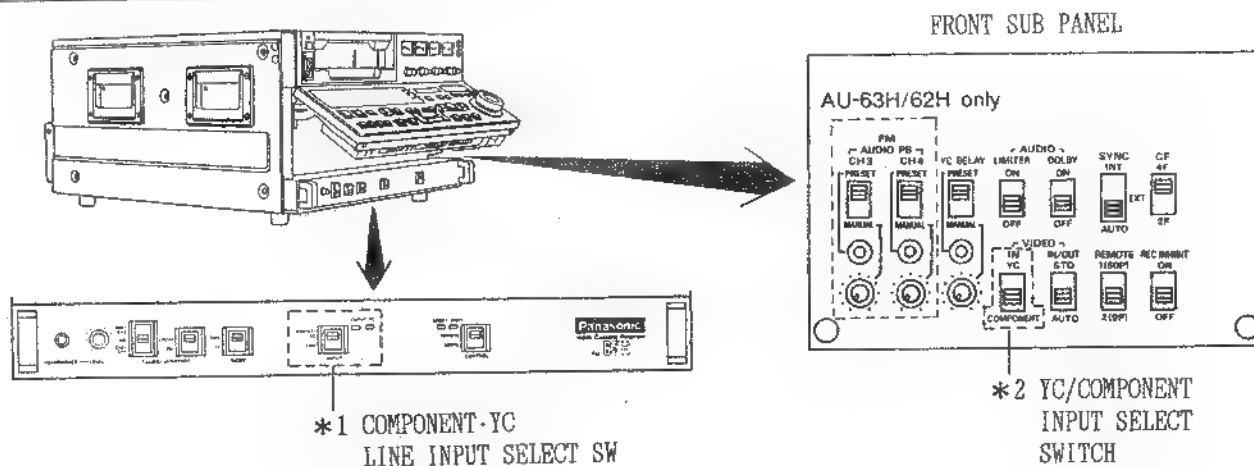
※2. Through the new alignment tape (Part No: VFM7189EG) is recommended for the electrical adjustments, the previous alignment tape (Part No: VFM7180EG) can also be used together with a one segment RF sweep alignment tape (Part No: VFM7104EG) instead of the new alignment tape.

# 1-3. SIGNAL GENERATOR CONNECTION METHOD & INPUT SELECT SWITCH SETTING (FOR ELECTRICAL ADJUSTMENT)

## CONNECTION METHOD (FOR AU-65H)



## INPUT SELECT SWITCH SETTING (FOR AU-65H)

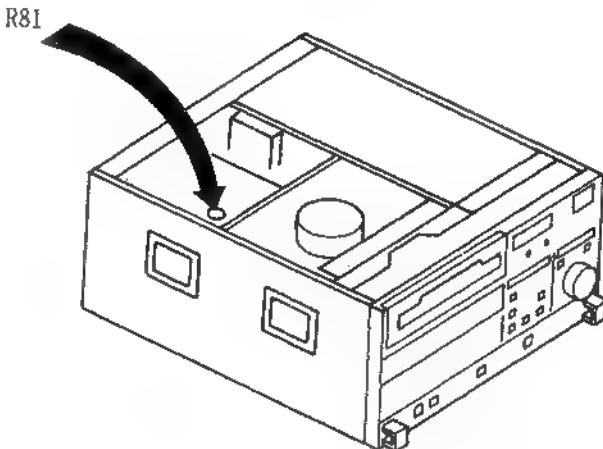


| INPUT SIGNAL NAME | *1                    | *2                 |
|-------------------|-----------------------|--------------------|
| COMPOSITE         | LINE POSITION         | -----              |
| COMPONENT         | COMPONENT/YC POSITION | COMPONENT POSITION |
| Y C               | COMPONENT/YC POSITION | YC POSITION        |

## 2. POWER SUPPLY UNIT

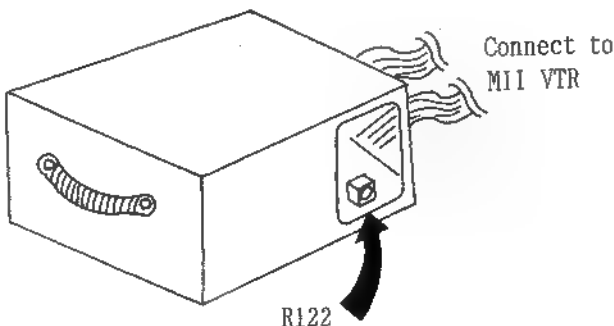
### 2-1. +5V ADJUSTMENT

( POWER UNIT )

| TEST POINT  | MODE   | TAPE USED  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT  |
|---|--|------------|---|--------------|---|
| TP19<br>(on W5)   | REC<br>(AU-65H/65)<br>PLAY<br>(AU-62H/63H<br>/62/63) | BLANK TAPE | Digital<br>Voltage<br>Meter   | -----        | R81 ( +5V )<br>(Top Panel of the Power<br>Supply Box) |
| <p>Step 1.</p> <p>1. Adjust R81 so that the voltage at TP19 is <math>+5 \pm 0.2V</math> (DC).</p> |  |            |  |              |   |

### 2-2. +7.5V ADJUSTMENT

( POWER UNIT )

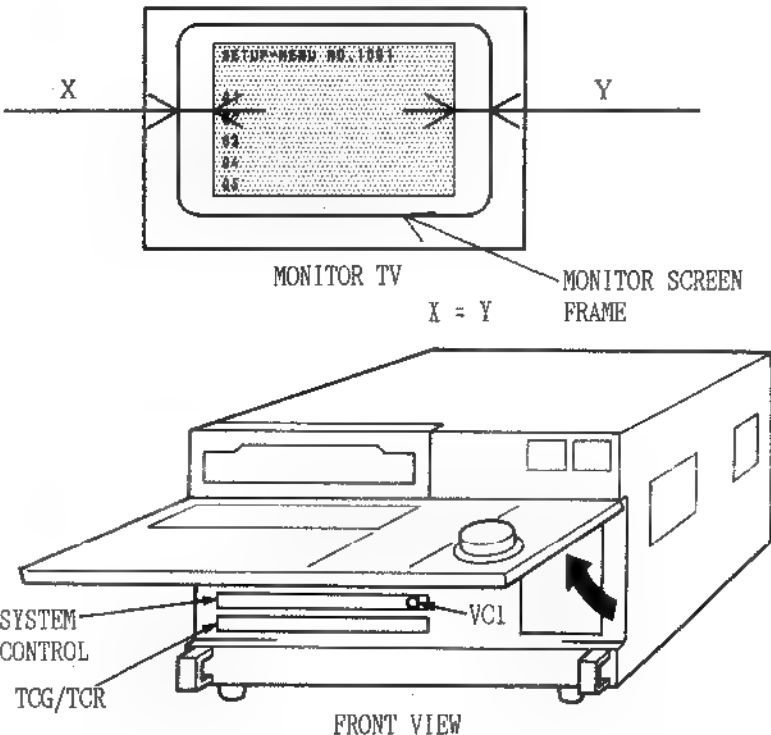
| TEST POINT   | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT  |
|--|-------|-----------|--|--------------|-------------|
| CP53-3<br>(+7.5V OUTPUT)   | ----- | -----     | VOLTAGE METER  | -----        | R122 (+7.5) |
| <p>Note:<br/>This adjustment is done after repairing this power unit only.</p> <p>Step 1.</p> <p>1. Connect the Power Unit in outside of VTR.</p> <p>2. Adjust R122 so that the voltage at CP53-3 (+7.5V output connector on the power unit) is <math>8.2 \pm 0.002V</math>.</p> |       |           |  <p>Connect to<br/>M11 VTR</p> <p>R122</p> <p>Specification<br/>+7.5V terminal = <math>8.2 \pm 0.002V</math><br/>(<math>8.2 = 7.5 + 10\%</math>)</p> |              |             |



### 3. SYSTEM CONTROL (B1) BOARD

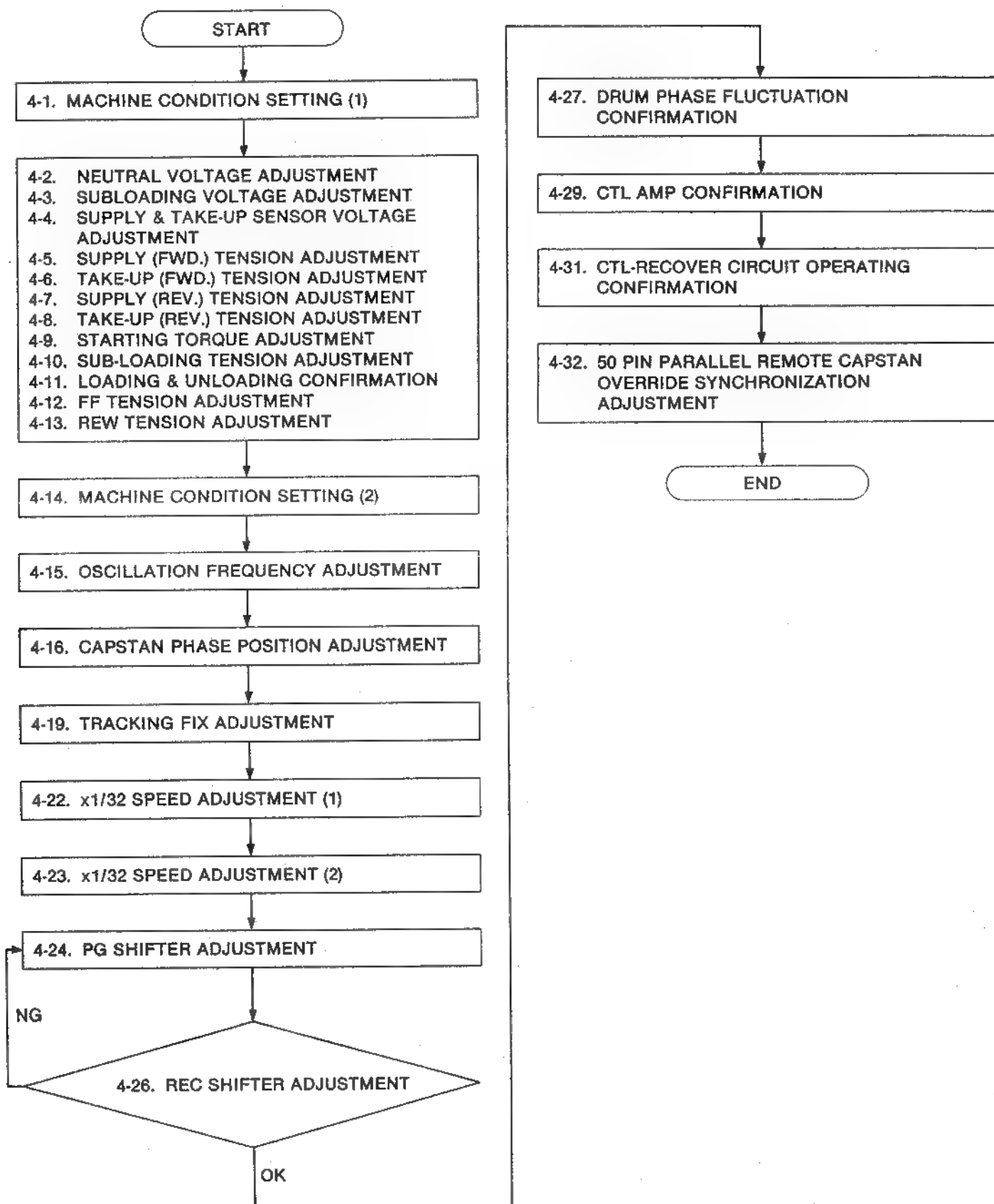
#### 3-1. SUPER IMPOSE HORIZONTAL POSITION ADJUSTMENT

( B1 SYSTEM CONTROL )

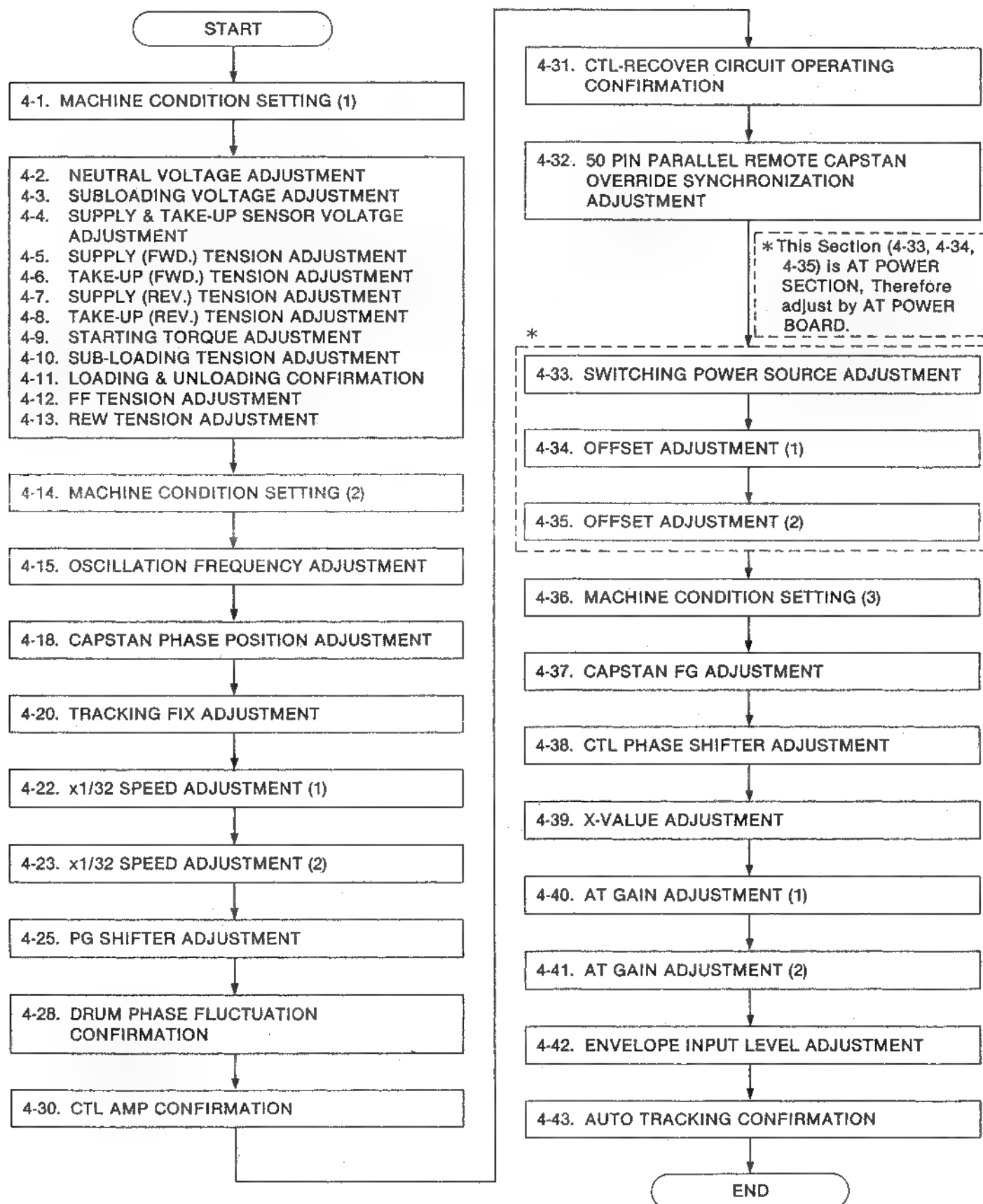
| TEST POINT  | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL | ADJUSTMENT           |
|---|-------|-----------|---|--------------|----------------------|
| VIDEO 3<br>OUT  | E - E | -----     | MONITOR<br>TV   | -----        | VC1 (SUPER POSITION) |
| <ol style="list-style-type: none"> <li>1. Open the Front Panel and press the MENU SW (SW3) on the System Control (B1) Board.</li> <li>2. Adjust VC1 so that the MENU Picture is in the centre of the monitor screen.</li> </ol> |       |           |  <p>MONITOR TV</p> <p>MONITOR SCREEN FRAME</p> <p><math>X = Y</math></p> <p>SYSTEM CONTROL</p> <p>TCG/TCR</p> <p>VC1</p> <p>FRONT VIEW</p> |              |                      |

## 4. SERVO (W5) BOARD

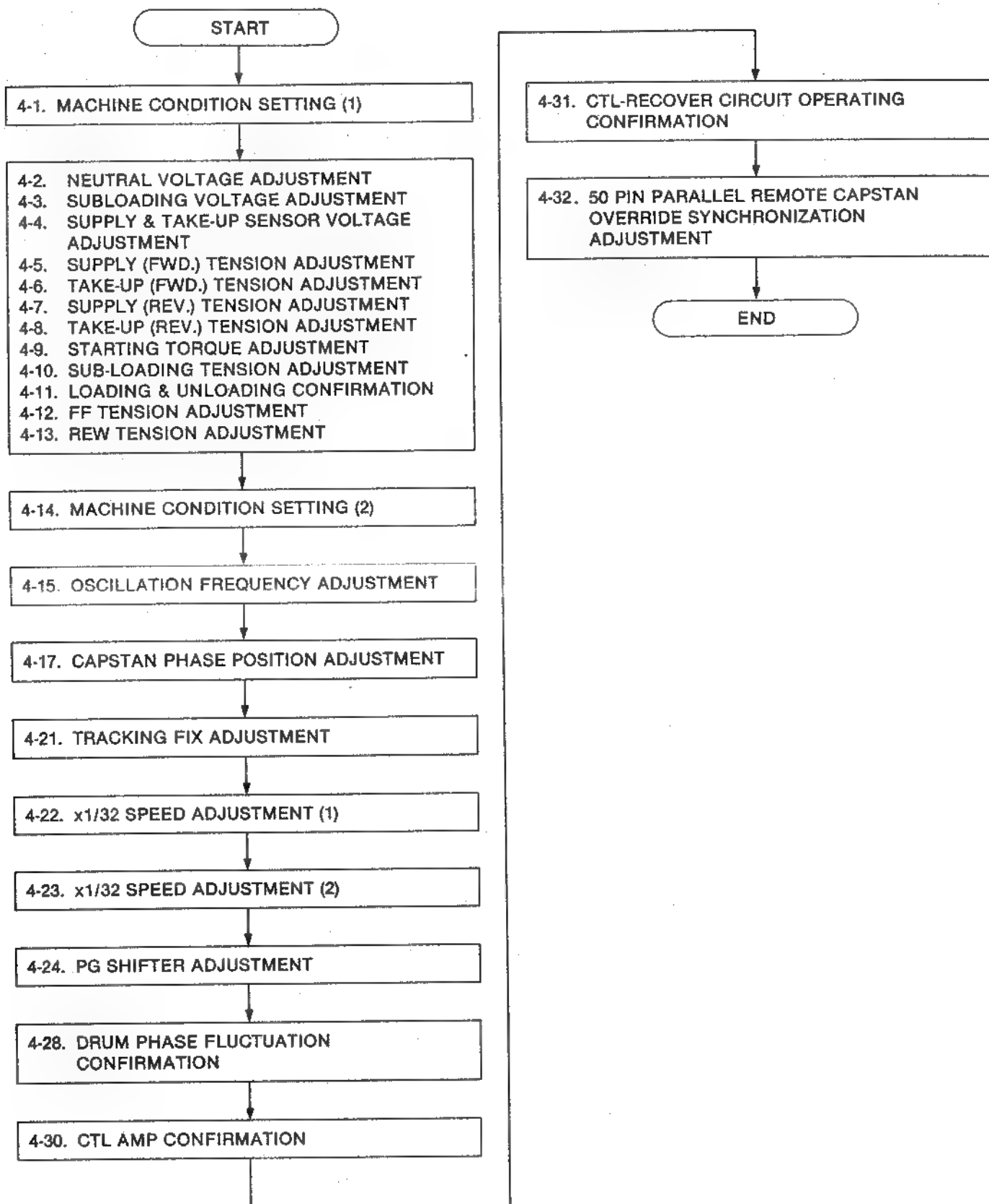
### SERVO SECTION (W5) FLOWCHART FOR AU-65H/AU-65



# SERVO SECTION (W5) FLOWCHART FOR AU-63H/AU-63



## SERVO SECTION (W5) FLOWCHART FOR AU-62H/AU-62



## 4. SERVO (W5) BOARD

### 4-1. MACHINE CONDITION SETTING (1)

1. When the Cassette Compartment is removed, the following conditions are required.

- 1) Connect a jumper wire between TP19 and TP20 on the Servo (W5) Board to prevent a tape slack.
- 2) Use the Dummy Plug (1) (VFK0361) to place the unit in the Loading Completion Mode.

2. SYNC SELECT (on Front Sub Panel) : AUTO Side

### 4-2. NEUTRAL VOLTAGE ADJUSTMENT

( W5 SERVO )

| TEST POINT  | MODE  | TAPE USED | M.EQ.                       | INPUT SIGNAL | ADJUSTMENT                                     |
|---|-------|-----------|-----------------------------|--------------|--|
| TP303<br>TP304  | EJECT | -----     | Digital<br>Voltage<br>Meter | -----        | VR302 (S TENSION FIX)<br>VR303 (T TENSION FIX) |
| <p>*Note:<br/>Set the D.V.M to the mV range so you can read the <math>\pm</math> voltage.</p> <p> <math>\odot</math> VR302      TP303 = <math>2.5 \pm 0.10V</math> (DC)<br/> <math>\odot</math> VR303      TP304 = <math>2.5 + 0.05 / -0.15V</math> (DC) </p> |       |           |                             |              |  |

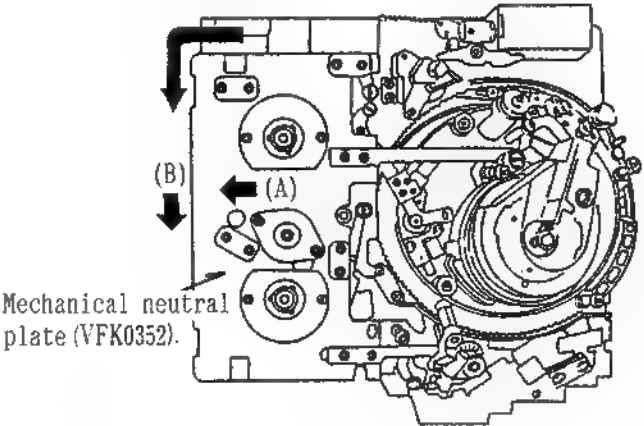
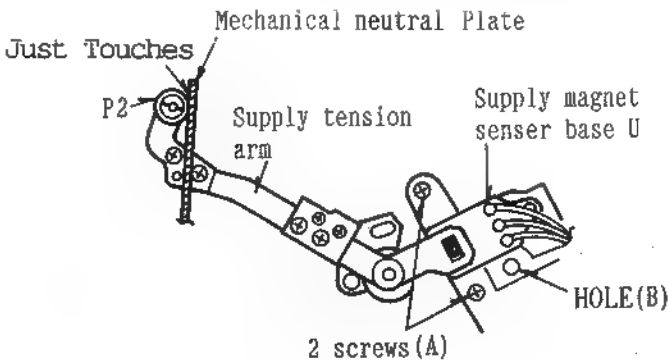
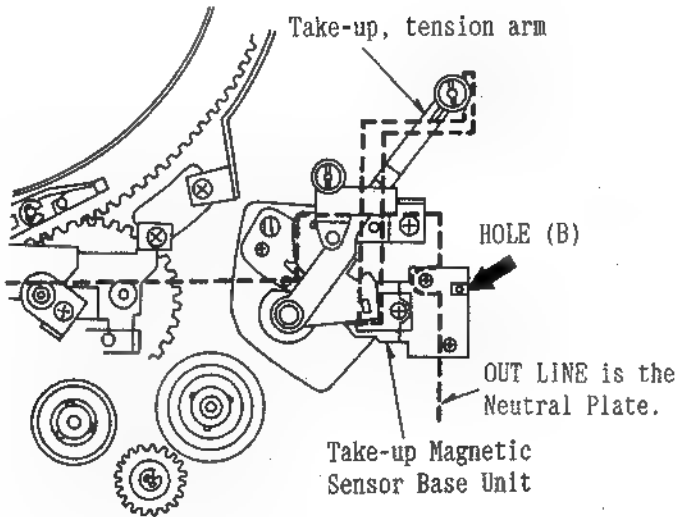
### 4-3. SUBLOADING VOLTAGE ADJUSTMENT

( W5 SERVO )

| TEST POINT  | MODE  | TAPE USED | M.EQ.                       | INPUT SIGNAL | ADJUSTMENT               |
|---|-------|-----------|-----------------------------|--------------|--------------------------|
| TP312   | EJECT | -----     | Digital<br>Voltage<br>Meter | -----        | VR308 (SUB LOAD VOLTAGE) |
| <p>*Note:<br/>Set the D.V.M. to the mV range so you can read the <math>\pm</math> voltage.</p> <p>SPECIFICATION : <math>35 \pm 1mV</math></p> |       |           |                             |              |                          |

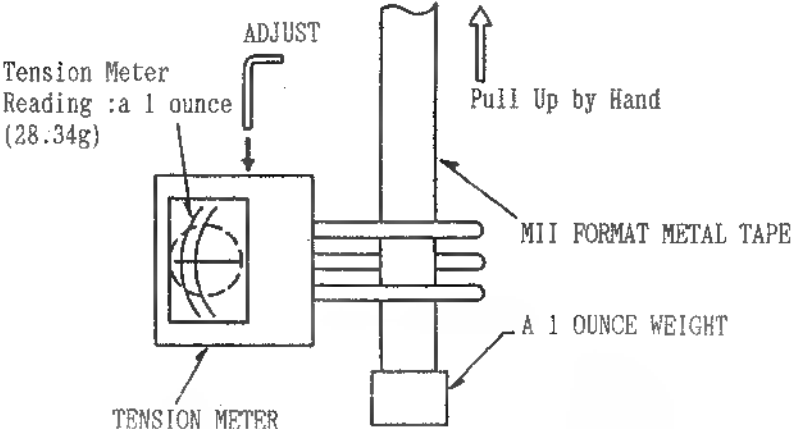
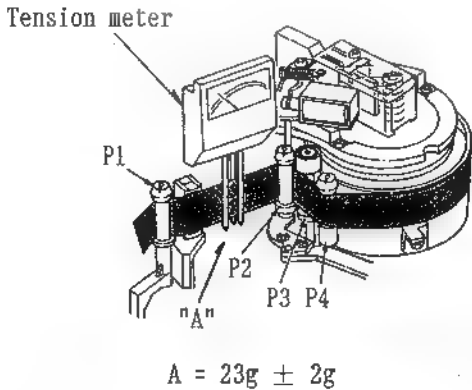
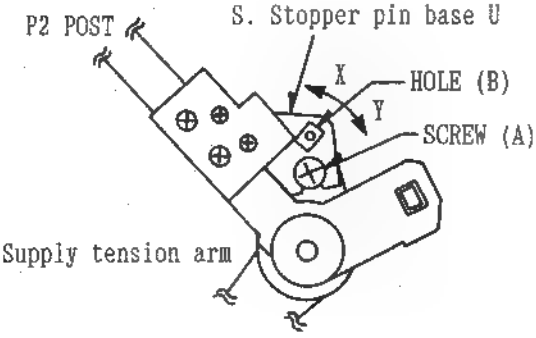
#### 4-4. SUPPLY & TAKE-UP SENSOR VOLTAGE ADJUSTMENT

( W5 SERVO )

| TEST POINT  | MODE                            | TAPE USED | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                             |
|---|---------------------------------|-----------|---|--------------|--|
| TP303<br>TP304  | EJECT<br>↓<br>STOP<br>(LOADING) | -----     | Digital<br>Voltage<br>Meter   | -----        | S & T MAGNETIC<br>SENSOR BASE<br>UNITS |
| Step 1.<br>MACHINE CONDITION  |                                 |           | 1. Remove the Cassette Compartment.<br>2. Refer to Set Up Conditions at the beginning of this SECTION (SERVO - W5 Machine Condition 4-1). |              |  |
| Step 2<br><br>1. Place the Mechanical Neutral Plate on the chassis and move it slightly down (A) and to right (B), to adjust the backlash as shown in the figure.   |                                 |           |  <p>Mechanical neutral plate (VFK0352).</p>            |              |  |
| Step 3.<br><br>1. D. V. M. : TP303<br>2. Confirm the DC voltage is 2500mV (2.5V) $\pm$ 50mV (DC).<br>3. If it is not, loosen the 2 screws and insert the eccentric screw driver into Hole (B).<br>4. Adjust the Supply Magnetic Sensor Base Unit so that the DC voltage is 2500mV (2.5V) $\pm$ 50mV (DC). |                                 |           |   |              |  |
| Step 4.<br><br>1. D. V. M. : TP304<br>2. Confirm the DC voltage is 2500mV (2.5V) $\pm$ 50mV (DC).<br>3. If it is not, insert the eccentric screw driver into Hole (B).<br>4. Adjust the Take-up Magnetic Sensor Base Unit so that the DC voltage is 2500mV (2.5V) $\pm$ 50mV (DC).                        |                                 |           |   |              |  |

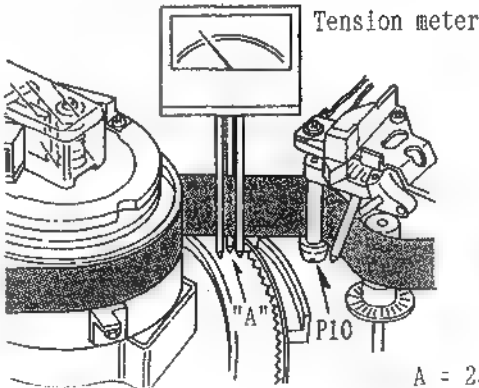
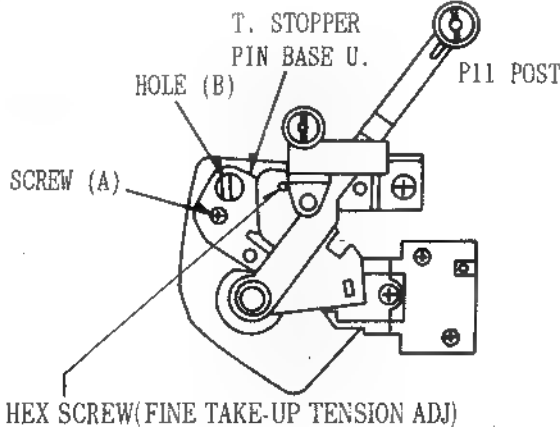
# 4-5. SUPPLY (FWD.) TENSION ADJUSTMENT

( W5 SERVO )

| TEST POINT  | MODE | TAPE USED                                     | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                         |
|---|------|---|--|--------------|------------------------------------|
| "A" (P1 ~ P2)   | PLAY | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | TENSION METER  | -----        | SUPPLY<br>STOPPER PIN BASE<br>UNIT |
| Step 1.<br>MACHINE CONDITION  |      |   | 1. Remove the Cassette Compartment.<br>2. Refer to Set Up Conditions at the beginning of<br>this SECTION (SERVO - W5 Machine Condition 4-1). |              |                                    |
| Step 2.<br>Calibration of Tentelometer<br><br>1. Before performing the tape tension<br>adjustment. The Tension Meter should<br>be checked as follows.<br>2. Use MII Metal Tape and a 1 ounce<br>weight.<br>3. Pull up a tape by hand as shown in<br>the figure.<br>4. Adjust the hex screw on the Tension<br>Meter so that the tension meter<br>reads 1 ounce.  |      |   |   |              |                                    |
| Step 3.<br>1. Insert the tension meter to Portion<br>"A" that is between P1 post and P2<br>post.<br>2. Mode : PLAY<br>3. Set the tension for "A" = $23g \pm 2g$ .   |      |   |    |              |                                    |
| Step 4.<br>1. If it is not within specification,<br>loosen the screw (A) and place<br>mechanism in the loading condition.<br>2. Insert the eccentric screw driver<br>into Hole (B).<br>3. Adjust the position of S. Stopper<br>Pin Base Unit so that the tension<br>is $23g \pm 2g$ at portion "A".<br>4. Before tightening the screw (A), place<br>mechanism in the unloading condition<br>and then tighten the screw (A) while<br>pushing the S. Stopper pin base unit<br>in arrow (C) as shown in Figure.<br>5. Reconfirm the tension after the<br>screw (A) is tightened. |      |   |    |              |                                    |

# 4-6. TAKE-UP (FWD.) TENSION ADJUSTMENT

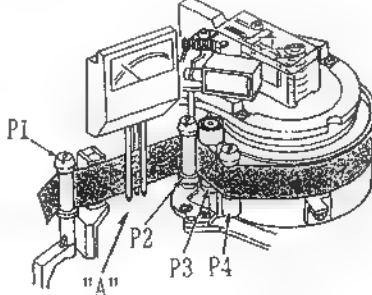
( W5 SERVO )

| TEST POINT   | MODE | TAPE USED                                     | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                           |
|--|------|---|--|--------------|--------------------------------------|
| "A"<br>(P9 ~ P10)  | PLAY | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | TENSION<br>METER   | -----        | TAKE-UP<br>STOPPER PIN BASE<br>UNITS |
| Step 1.<br>MACHINE CONDITION   |      |   | 1. Remove the Cassette Compartment.<br>2. Refer to Set Up Conditions at the beginning of<br>this SECTION (SERVO - W5 Machine Condition 4-1).   |              |                                      |
| Step 2.<br>1. Insert the tension meter to Portion "A"<br>that is between P9 post and P10 post.<br>2. Mode : PLAY<br>3. Confirm that the tension meter indicates<br>$23g \pm 2g$ .  |      |   |  <p>Tension meter</p> <p>A = <math>23g \pm 2g</math></p>  |              |                                      |
| Step 3.<br>1. If it is not within specification,<br>loosen the screw (A).<br>2. Insert the eccentric screw driver into<br>Hole (B).<br>3. Adjust the position of T. Stopper Pin<br>Base Unit so that the tension is<br>$23g \pm 2g$ .<br>4. Finally, tighten the screw (A).<br>5. Reconfirm the tension after the screw<br>(A) is tightened. |      |   |  <p>T. STOPPER<br/>PIN BASE U.</p> <p>P11 POST</p> <p>HOLE (B)</p> <p>SCREW (A)</p> <p>HEX SCREW(FINE TAKE-UP TENSION ADJ)</p> |              |                                      |



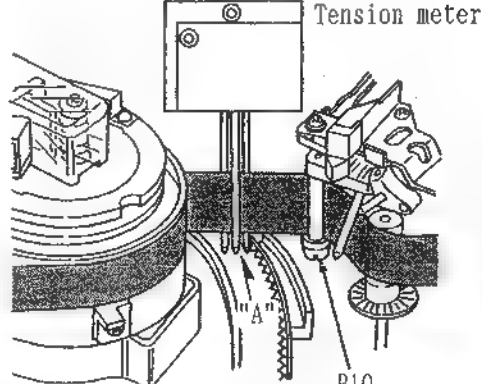
#### 4-7. SUPPLY (REV.) TENSION ADJUSTMENT

( W5 SERVO )

| TEST POINT   | MODE             | TAPE USED                                     | M.EQ.  | INPUT SIGNAL | ADJUSTMENT              |
|--|------------------|---|--|--------------|-------------------------|
| "A" (P1 ~ P2)  | SHTL $\times$ -1 | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | TENSION METER  | -----        | VR309 (S. REV. TENSION) |
| Step 1.<br>MACHINE CONDITION   |                  |   | 1. Refer to Set Up Conditions at the beginning of this SECTION (SERVO - W5 Machine Condition 4-1).   |              |                         |
| Step 2.<br><br>1. Insert the tension meter to Portion "A" that is between P1 post and P2 post.<br>2. Mode : SHTL $\times$ -1 (See Above)<br>3. Confirm that the tension meter indicates $25 \pm 1$ (g).<br>4. If it is not within specification, adjust VR309 so that the tension is $25 \pm 1$ (g). |                  |   |  <p style="text-align: right;">⊗ VR309</p> <p style="text-align: center;"><math>A = 25 \pm 1</math> (g)</p> |              |                         |

#### 4-8. TAKE-UP (REV.) TENSION ADJUSTMENT

( W5 SERVO )

| TEST POINT  | MODE             | TAPE USED                                     | M.EQ.   | INPUT SIGNAL | ADJUSTMENT              |
|---|------------------|---|---|--------------|-------------------------|
| "A" (P9 ~ P10)  | SHTL $\times$ -1 | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | TENSION METER   | -----        | VR305 (T. REV. TENSION) |
| Step 1.<br>MACHINE CONDITION  |                  |   | 1. Refer to Set Up Conditions at the beginning of this SECTION (SERVO - W5 Machine Condition 4-1).  |              |                         |
| Step 2.<br><br>1. Insert the tension meter to Portion "A" that is between P9 post and P10 post.<br>2. Mode : SHTL $\times$ -1 (See Above)<br>3. Confirm that the tension meter indicates 30 ~ 35 (g).<br>4. If it is not within specification, adjust VR309 so that the tension is 30 ~ 35 (g). |                  |   |  <p style="text-align: right;">⊗ VR305</p> <p style="text-align: center;"><math>A = 30 \sim 35</math> (g)</p> |              |                         |

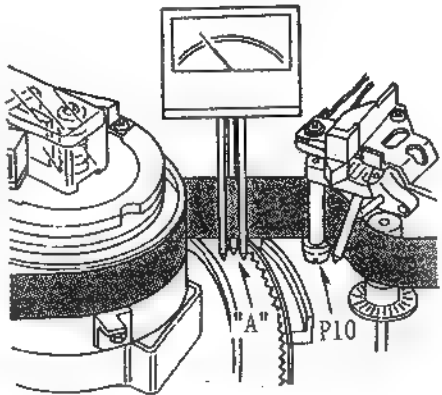
#### 4-9. STARTING TORQUE ADJUSTMENT

( W5 SERVO )

| TEST POINT  | MODE | TAPE USED                                     | M.EQ.   | INPUT SIGNAL | ADJUSTMENT        |
|---|------|---|---|--------------|-------------------|
| TP302<br>(HOT)<br>TP310<br>(COLD)   | PLAY | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | Digital<br>Volt<br>Meter  | -----        | VR301 (START TRQ) |
| Step 1.<br><br>MACHINE CONDITION  |      |   | Refer to Set Up Conditions at the beginning of this<br>SECTION (SERVO - W5 Machine Condition 4-1).          |              |                   |
| Note:<br>Measure the voltage after the voltage is<br>stabilized.<br><br>1. Adjust VR301 so that the voltage at<br>TP302 is $-200\text{mV} \pm 5\text{mV}$ . |      |   | $\varnothing$ VR301<br><br>$(\text{TP302}) - (\text{TP310}) = -200\text{mV} \pm 5\text{mV}$<br>(HOT) (COLD) |              |                   |

#### 4-10. SUB-LOADING TENSION ADJUSTMENT

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED                                     | M.EQ.  | INPUT SIGNAL | ADJUSTMENT           |
|--|------|---|--|--------------|----------------------|
| "A" (P9 ~ P10)   | PLAY | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | TENSION<br>METER   | -----        | VR307 (LOAD TENSION) |
| Step 1.<br><br>MACHINE CONDITION   |      |   | 1. Refer to Set Up Conditions at the beginning of<br>this SECTION (SERVO - W5 Machine Condition 4-1).<br>2. Connect a jumper wire between TP309 and TP311 to make a<br>sub-loading condition after the tape is loaded. |              |                      |
| Step 2.<br><br>1. Insert the tension meter to Portion<br>"A" that is between P9 post and P10<br>post.<br>2. Mode : PLAY<br>3. Confirm that the tension meter<br>indicates 8 ~ 10 (g).<br>4. If it is not within the specification,<br>adjust VR307 so that the tension is<br>8 ~ 10 (g).<br>5. Finally, disconnect the jumper wire<br>between TP309 and TP311. |      |   | <div style="text-align: center;"> <p>Tension meter</p>  <p><math>\varnothing</math> VR307</p> <p>A = 8 ~ 10 (G)</p> </div>         |              |                      |

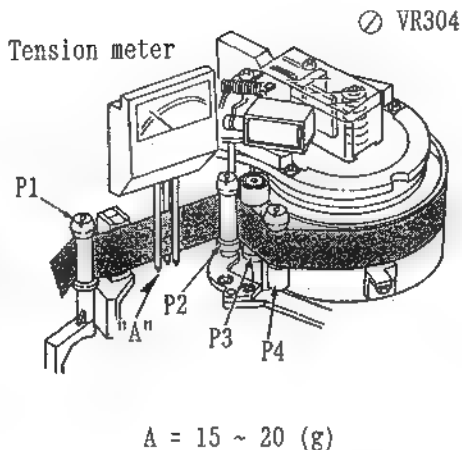
#### 4-11. LOADING & UNLOADING CONFIRMATION

( W5 SERVO )

| TEST POINT  | MODE                 | TAPE USED             | M.EQ.   | INPUT SIGNAL | ADJUSTMENT |
|---|----------------------|-----------------------|---|--------------|------------|
| -----   | STOP<br>↓ ↑<br>EJECT | BLANK 90 min.<br>TAPE | -----   | -----        | -----      |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Confirm that the tape is going into a load and Unloading mode properly when the unit is placed in STOP and EJECT several times.</li> <li>2. Power Switch : OFF (EJECT mode)</li> <li>3. Power Switch : ON</li> <li>4. Confirm STEP 1 again.</li> </ol> |                      |                       | <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. If it is not, readjust the following items. <ol style="list-style-type: none"> <li>A. Section 4-3 (Sub - Loading Voltage Adjustment)</li> <li>B. Section 4-10 (Sub - Loading Tension Adjustment)</li> </ol> </li> <li>2. Repeat STEP 2.</li> </ol> |              |            |

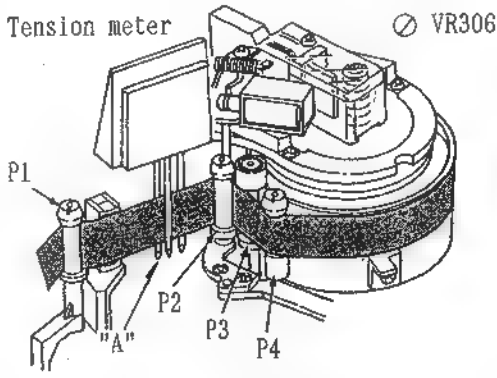
#### 4-12. FF TENSION ADJUSTMENT

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED                                     | M.EQ.   | INPUT SIGNAL | ADJUSTMENT            |
|--|------|---|---|--------------|-----------------------|
| "A" (P1 ~ P2)  | FF   | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | TENSION METER   | -----        | VR304 (S. FF TENSION) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Insert the tension meter to Portion "A" that is between P1 post and P2 post.</li> <li>2. Mode : FF</li> <li>3. Confirm that the tension meter indicates 15 ~ 20 (g).</li> <li>4. If it is not within the specification, adjust VR304 so that the tension is 15 ~ 20 (g).</li> </ol> |      |   |  <p style="text-align: center;">A = 15 ~ 20 (g)</p> |              |                       |

#### 4-13. REW TENSION ADJUSTMENT

( W5 SERVO )

| TEST POINT  | MODE | TAPE USED                                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT             |
|---|------|---|---|--------------|------------------------|
| "A" (P1 ~ P2)   | REW  | BLANK 90 min.<br>TAPE<br>END OF TAPE<br>PORTION | TENSION METER   | -----        | VR306 (S. REW TENSION) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Insert the tension meter to Portion "A" that is between P1 post and P2 post.</li> <li>2. Mode : REW</li> <li>3. Confirm that the tension meter indicates 40 ~ 50 (g).</li> <li>4. If it is not within specification, adjust VR306 so that the tension is 40 ~ 50 (g).</li> </ol> |      |   |  <p style="text-align: center;">A = 40 ~ 50 (g)</p> |              |                        |

#### 4-14. MACHINE CONDITION SETTING (2)

( W5 AT )

Set the switches on the Front Sub Panel as follows except special condition.

1. MODE SELECT : EE (FOR AU-65H/65)
2. COLOUR FRAMING : 2F Mode
3. AT POWER : ----- Please disconnect the connector P10 on the AT power Board and set the AT Head to the preset position.  
(AT model only)

#### 4-15. OSCILLATION FREQUENCY ADJUSTMENT

( W5 SERVO )

| TEST POINT                                | MODE | TAPE USED   | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|---|------|---|--|--------------|------------|
| TP103                                     | PLAY | PRE-RECORDED<br>90 min. TAPE<br>(MIDDLE<br>PORTION) | FREQUENCY<br>COUNTER   | -----        | VC101      |
| Step 1.<br>MACHINE CONDITION              |      |   | Refer to Set Up Conditions at 4-14 Machine<br>Condition Setting (2). |              |            |
| ⊙ VC101 SPECIFICATION : 2985940 ± 50 [Hz] |      |   |  |              |            |

#### 4-16. CAPSTAN PHASE POSITION ADJUSTMENT (FOR AU-65H / AU-65)

( W5 SERVO )

| TEST POINT                   | MODE | TAPE USED                         | M.EQ.  | INPUT SIGNAL | ADJUSTMENT       |
|------------------------------|------|-----------------------------------|--|--------------|------------------|
| TP105<br>TP102               | REC  | BLANK TAPE<br>(MIDDLE<br>PORTION) | OSCILLOSCOPE   | COLOUR BAR   | VR103 (CAP REF.) |
| Step 1.<br>MACHINE CONDITION |      |                                   | Refer to Set Up Conditions at 4-14 Machine<br>Condition Setting (2). |              |                  |

A

B

Trigger

$\Delta T$

⊙ VR103

$\Delta T = 0 \pm 70 [\mu \text{sec}]$

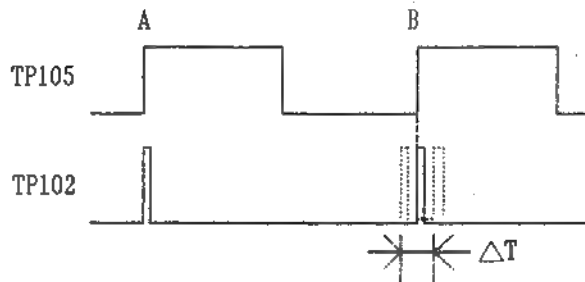
Trigger = "A" point of TP105

#### 4-17. CAPSTAN PHASE POSITION ADJUSTMENT (FOR AU-62H / AU-62)

( W5 SERVO )

| TEST POINT                   | MODE | TAPE USED   | M.EQ.   | INPUT SIGNAL | ADJUSTMENT       |
|------------------------------|------|---|---|--------------|------------------|
| TP105<br>TP102               | PLAY | PRE-RECORDED<br>90 min. TAPE<br>(MIDDLE<br>PORTION) | OSCILLOSCOPE  | -----        | VR103 (CAP REF.) |
| Step 1.<br>MACHINE CONDITION |      |   | Refer to Set Up Conditions at 4-14 Machine<br>Condition Setting (2) |              |                  |



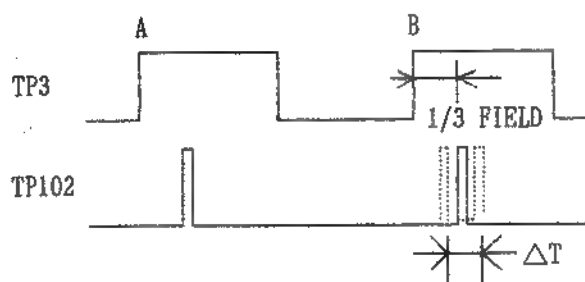
$\phi$  VR103     $\Delta T = 0 \pm 70 [\mu \text{sec}]$   
 Trigger = "A" point of TP105

#### 4-18. CAPSTAN PHASE POSITION ADJUSTMENT (FOR AU-63H / AU-63)

( W5 SERVO )

| TEST POINT                   | MODE | TAPE USED   | M.EQ.  | INPUT SIGNAL | ADJUSTMENT       |
|------------------------------|------|---|--|--------------|------------------|
| TP3<br>TP102                 | PLAY | PRE-RECORDED<br>90 min. TAPE<br>(MIDDLE<br>PORTION) | OSCILLOSCOPE   | -----        | VR103 (CAP REF.) |
| Step 1.<br>MACHINE CONDITION |      |   | Refer to Set Up Conditions at 4-14 Machine<br>Condition Setting (2). |              |                  |

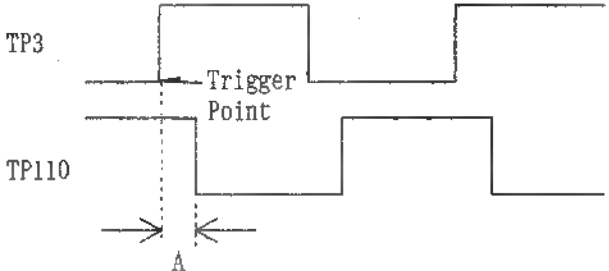
  



$\phi$  VR103     $\Delta T = 0 \pm 70 [\mu \text{sec}]$   
 Trigger = "A" point of TP3

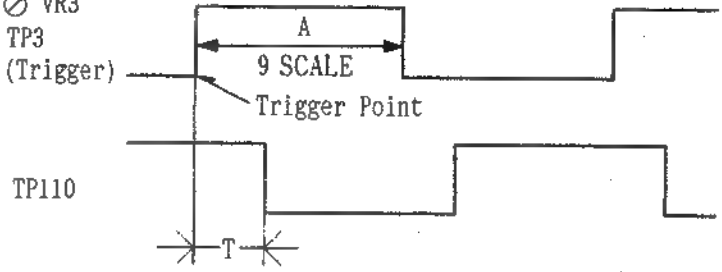
#### 4-19. TRACKING FIX ADJUSTMENT (FOR AU-65H / AU-65)

( W5 SERVO )

| TEST POINT  | MODE           | TAPE USED  | M.EQ.   | INPUT SIGNAL            | ADJUSTMENT      |
|---|----------------|------------|---|-------------------------|-----------------|
| TP3<br>TP110  | SELF<br>REC/PB | BLANK TAPE | OSCILLOSCOPE  | COMPONENT<br>COLOUR BAR | VR3 (R/P TRACK) |
| Step 1.<br><br>MACHINE CONDITION                        |                |            | 1. FRONT PANEL TRACKING VR : DETENT POSITION<br>2. Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).            |                         |                 |
| Step 2.<br><br>SCOPE CH1 : TP3 (Trigger)<br>CH2 : TP110 |                |            | ⌀ VR3<br><br>$A = 0 \pm 100 [\mu\text{sec}]$ |                         |                 |

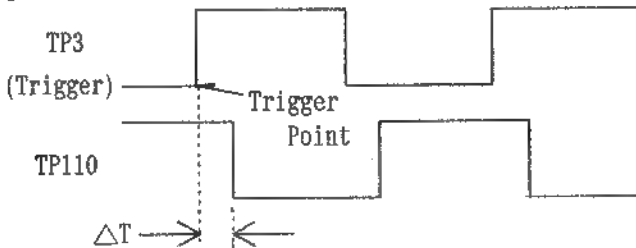
#### 4-20. TRACKING FIX ADJUSTMENT (FOR AU-63H / AU-63)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED                         | M.EQ.   | INPUT SIGNAL | ADJUSTMENT  |
|--|------|-----------------------------------|---|--------------|---|
| TP3<br>TP110   | PLAY | ALIGNMENT<br>TAPE<br>(COLOUR BAR) | OSCILLOSCOPE  | -----        | VR3 (R/P TRACK)<br><br>R/P TRACK is VR's name This is used for AT |
| Step 1.<br><br>MACHINE CONDITION   |      |                                   | Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).   |              |   |
| Step 2.<br><br>SCOPE CH1 : TP3 (Trigger)<br>CH2 : TP110<br><br>1. Set the sweep range of scope so that the "A" width measure across 9 Scales on the oscilloscope face. |      |                                   | ⌀ VR3<br><br>$T = 3 \pm 0.1 \text{ SCALES} \quad (A : T = 9 : 3)$ |              |   |

# 4-21. TRACKING FIX ADJUSTMENT (FOR AU-62H / AU-62)

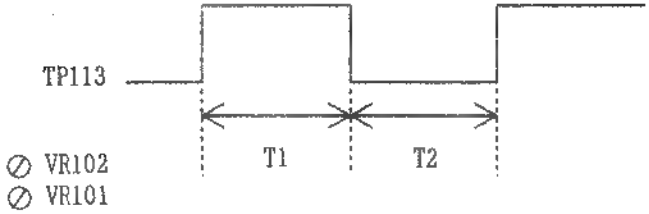
( W5 SERVO )

| TEST POINT  | MODE | TAPE USED         | M.EQ.   | INPUT SIGNAL | ADJUSTMENT      |
|---|------|-------------------|---|--------------|-----------------|
| TP3<br>TP110  | PLAY | ALIGNMENT<br>TAPE | OSCILLOSCOPE  | -----        | VR3 (R/P TRACK) |
| Step 1.<br>MACHINE CONDITION                            |      |                   | FRONT PANEL TRACKING VR : DETENT POSITION   |              |                 |
| Step 2.<br><br>SCOPE CH1 : TP3 (Trigger)<br>CH2 : TP110 |      |                   | <p>⊙ VR3</p>  <p>TP3<br/>(Trigger)</p> <p>TP110</p> <p>Trigger Point</p> <p><math>\Delta T</math></p> <p><math>\Delta T = 0 \pm 100 [\mu \text{sec}]</math></p> |              |                 |



#### 4-22. $\times 1/32$ SPEED ADJUSTMENT (1)

( W5 SERVO )

| TEST POINT   | MODE                  | TAPE USED   | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                       |
|--|-----------------------|---|---|--------------|----------------------------------|
| TP113<br>TP115   | SHTL<br>$\times 1/32$ | PRE-RECORDED<br>90 min. TAPE<br>(MIDDLE<br>PORTION) | OSCILLOSCOPE  | -----        | VR102 (1/32 A)<br>VR101 (1/32 C) |
| Step 1.<br>MACHINE CONDITION   |                       |   | Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).   |              |                                  |
| Step 2.<br>1. SCOPE : TP113<br>2. Confirm that the waveform is as follows.<br><br>T1 : T2 = 4:6 or 6:4 |                       |   |  <p>T1 : T2 = 4 : 6 ~ 6 : 4</p> |              |                                  |
| Step 3.<br>1. If it is not within specification,<br>adjust VR102 so that T1 : T2 = 5 : 5               |                       |   |   |              |                                  |

#### 4-23. $\times 1/32$ SPEED ADJUSTMENT (2)

( W5 SERVO )

| TEST POINT                             | MODE                  | TAPE USED   | M.EQ.                         | INPUT SIGNAL | ADJUSTMENT     |
|--|-----------------------|---|-------------------------------|--------------|----------------|
| TP115                                  | SHTL<br>$\times 1/32$ | PRE-RECORDED<br>90 min. TAPE<br>(MIDDLE<br>PORTION) | FREQUENCY<br>COUNTER          | -----        | VR101 (1/32 C) |
| Step 1.<br>FREQUENCY COUNTER CONDITION |                       |   | SW : LOW and L. P. F.         |              |                |
| Step 2.<br>SPECIFICATION               |                       |   | ⓧ VR101<br>56.25 $\pm$ 5 [Hz] |              |                |

#### 4-24. PG SHIFTER ADJUSTMENT (FOR AU-65H/62H and AU-65/62)

( W5 SERVO )

| TEST POINT  | MODE | TAPE USED               | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                   |
|---|------|-------------------------|---|--------------|------------------------------|
| TP13<br>TP7   | PLAY | ALIGNMENT<br>COLOUR BAR | OSCILLOSCOPE  | -----        | SW 1 (FINE)<br>SW 2 (COARSE) |
| Step 1.<br><br>Note:<br>Confirm that the Y RF envelope is maximized at TP301 on W3 Board.<br>(The mechanical interchangeability should be completed.)<br><br>1. Adjust SW1 and SW2 so that the $T = 2.75 \pm 0.1$ [H] as shown in figure. |      |                         | SW1, SW2<br><br>First Field<br><br>$T = 2.75 \pm 0.1$ [H] |              |                              |

#### 4-25. PG SHIFTER ADJUSTMENT (FOR AU-63H / AU-63)

( W5 SERVO )

| TEST POINT  | MODE | TAPE USED               | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                   |
|---|------|-------------------------|---|--------------|------------------------------|
| TP13<br>TP702   | PLAY | ALIGNMENT<br>COLOUR BAR | OSCILLOSCOPE  | -----        | SW 1 (FINE)<br>SW 2 (COARSE) |
| Step 1.<br>- MACHINE CONDITION  |      |                         | Refer to Set Up Conditions at 4-14 Machine Condition Setting (2). |              |                              |
| Step 2.<br><br>Note:<br>Confirm that the Y RF envelope is maximized at TP301 on W3 Board.<br>(The mechanical interchangeability should be completed.)<br><br>1. Adjust SW1 and SW2 so that the $T = 2.75 \pm 0.1$ [H] as shown in figure. |      |                         | SW1, SW2<br><br>First Field<br><br>$T = 2.75 \pm 0.1$ [H]         |              |                              |

# 4-26. REC SHIFTER ADJUSTMENT (FOR AU-65H / AU-65)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED  | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT      |
|--|------|------------|--|---------------------------------|-----------------|
| TP13<br>TP7  | REC  | BLANK TAPE | OSCILLOSCOPE   | COMPONENT<br>100%<br>COLOUR BAR | VR1 (REC SHIFT) |
| Step 1.<br>MACHINE CONDITION   |      |            | 1. Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).<br>2. INPUT SELECT : COMPONENT<br>(Pull Out Drawer & Front Sub Panel) |                                 |                 |
| Step 2.<br><br>SCOPE CH1 : TP13<br>SCOPE CH2 : TP7<br><br>1. Adjust VR1 so that the $T = 2.75 \pm 0.1$ [H] as shown in figure. |      |            | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>⊙ VR1</p> </div> <div> </div> </div>                |                                 |                 |

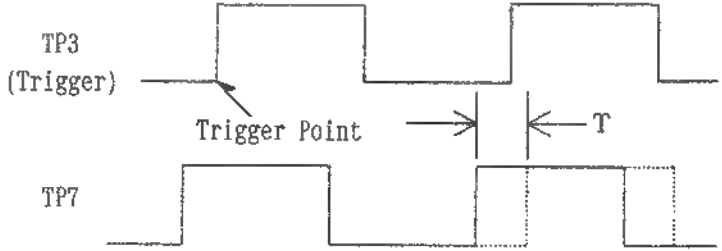
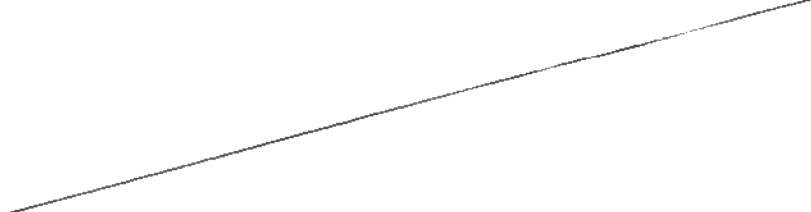
# 4-27. DRUM PHASE FLUCTUATION CONFIRMATION (FOR AU-65H / AU-65)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED  | M.EQ.   | INPUT SIGNAL                    | ADJUSTMENT |
|--|------|------------|---|---------------------------------|------------|
| TP3<br>TP7   | REC  | BLANK TAPE | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOUR BAR | -----      |
| Step 1.<br>MACHINE CONDITION   |      |            | Refer to Set up Conditions at 4-14 Machine Condition Setting (2).   |                                 |            |
| Step 2.<br><br>SCOPE CH1 : TP3 (Trigger)<br>SCOPE CH2 : TP7<br><br>1. Trigger the scope at rising edge of TP3.<br>2. Confirm that the T fluctuation is less than 6 $\mu$ sec as shown in figure. |      |            | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>TP3<br/>(Trigger)</p> </div> <div> </div> </div> |                                 |            |
| Step 3.<br><br>1. If it is not with in specification, readjust from beginning of this section (4-2 ~ ).  |      |            |   |                                 |            |

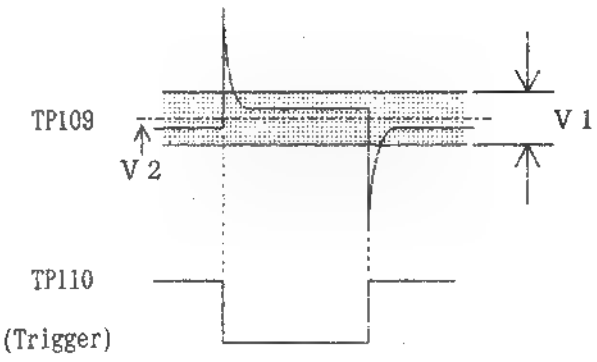
#### 4-28. DRUM PHASE FLUCTUATION CONFIRMATION (FOR AU-62H/63H and AU-62/63)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED   | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|--|------|---|--|--------------|------------|
| TP3<br>TP7   | PLAY | PRE-RECORDED<br>TAPE<br>90 min.<br>MIDDLE PORTION | OSCILLOSCOPE   | -----        | -----      |
| Step 1.<br>MACHINE CONDITION   |      |   | Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).  |              |            |
| Step 2.<br><br>SCOPE CH1 : TP3 (Trigger)<br>SCOPE CH2 : TP7<br><br>1. Trigger the scope at rising edge of TP3.<br>2. Confirm that the T fluctuation is less than 6 $\mu$ sec as shown in figure. |      |   |  <p>T = less than 6 <math>\mu</math>sec.</p> |              |            |
| Step 3.<br><br>1. If it is not with in specification, readjust from beginning of this section (4-2 ~ ).  |      |   |    |              |            |

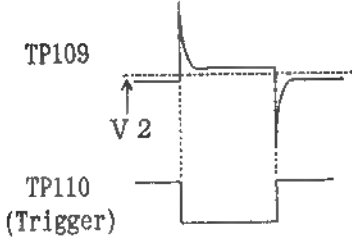
#### 4-29. CTL AMP CONFIRMATION (FOR AU-65H / AU-65)

( W5 SERVO )

| TEST POINT  | MODE                             | TAPE USED  | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT |
|---|----------------------------------|------------|--|---------------------------------|------------|
| TP109<br>TP110  | Time Code<br>Insert<br>Recording | BLANK TAPE | OSCILLOSCOPE   | COMPONENT<br>100%<br>COLOUR BAR | -----      |
| Step 1.<br><br>SCOPE CH1 : TP109<br>SCOPE CH2 : TP110 (Trigger)<br><br>1. Confirm that the V1 (Noise level) is less than 400mVp-p.<br>2. Confirm the phase relationship as shown.<br>3. Confirm that the DC voltage of TP109 (V2) is less than 2.5V (DC). |                                  |            |  |                                 |            |

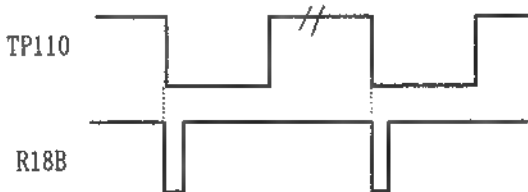
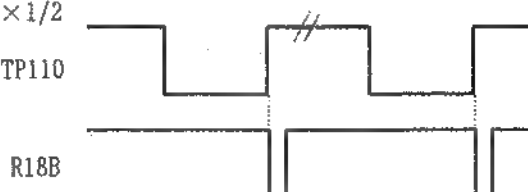
#### 4-30. CTL AMP CONFIRMATION (FOR AU-62H/63H and AU-62/63)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED                         | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT |
|--|------|-----------------------------------|--|---------------------------------|------------|
| TP109<br>TP110   | PLAY | ALIGNMENT<br>TAPE<br>(COLOUR BAR) | OSCILLOSCOPE   | COMPONENT<br>100%<br>COLOUR BAR | -----      |
| Step 1.<br>MACHINE CONDITION   |      |                                   | Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).                  |                                 |            |
| Step 2.<br><br>SCOPE CH1 : TP109<br>SCOPE CH2 : TP110 (Trigger)<br><br>1. Confirm the phase relationship as shown.<br>2. Confirm that the DC voltage of TP109 (V2) is less than 2.5V (DC). |      |                                   |  |                                 |            |

#### 4-31. CTL-RECOVER CIRCUIT OPERATING CONFIRMATION

( W5 SERVO )

| TEST POINT   | MODE                                  | TAPE USED         | M.EQ.   | INPUT SIGNAL | ADJUSTMENT |
|--|---------------------------------------|-------------------|---|--------------|------------|
| TP110<br>W5 Terminal<br>R18B   | SHTL<br>$\times 1/2$<br>$-\times 1/2$ | ALIGNMENT<br>TAPE | OSCILLOSCOPE  | -----        | -----      |
| Step 1.<br>MACHINE CONDITION   |                                       |                   | Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).   |              |            |
| Step 2.<br><br>SCOPE CH1 : TP110<br>SCOPE CH2 : Terminal R18B<br>(on W5 Board)<br><br>1. MODE : SHTL $\times 1/2$<br>2. Confirm the phase relationship as shown. |                                       |                   | <p>SHTL <math>\times 1/2</math></p>   |              |            |
| Step 3.<br><br>1. MODE : SHTL $-\times 1/2$<br>2. Confirm the phase relationship as shown.   |                                       |                   | <p>SHTL <math>-\times 1/2</math></p>  |              |            |

# 4-32. 50 PIN PARALLEL REMOTE CAPSTAN OVERRIDE SYNCHRONIZATION ADJUSTMENT

( W5 SERVO )

| TEST POINT | MODE | TAPE USED            | M.EQ.                | INPUT SIGNAL | ADJUSTMENT                |
|------------|------|----------------------|----------------------|--------------|---------------------------|
| TP115      | PLAY | PRE-RECORDED<br>TAPE | FREQUENCY<br>COUNTER | -----        | VR104 (CAP OVER)<br>VR105 |

## Note:

This adjustment is needed when AU-MK25 is installed.

## Step 1.

1. Connect a DC voltage to pin 46 of 50 Pin Remote Connector.
2. Set the DC voltage to 5.2V (DC).
3. FREQUENCY COUNTER : TP115
4. Adjust VR104 so that the frequency becomes  $1800 \pm 50\text{Hz}$ .
5. Set the DC voltage to 8.2V (DC).
6. Frequency Counter : TP115
7. Adjust VR105 so that the frequency becomes  $2160 \pm 100\text{Hz}$ .
8. Set the DC voltage to 2.2V (DC).
9. Frequency Counter : TP115
10. Confirm that the frequency becomes  $1535 \pm 100\text{Hz}$ .
11. If it is not, repeat from item 2 to item 10.

| 46 Pin<br>(on 50 Pin) | TP115<br>(Frequency)    | VR No.       |
|-----------------------|-------------------------|--------------|
| 2.2V (DC)             | $1535 \pm 100\text{Hz}$ | CONFIRMATION |
| 5.2V (DC)             | $1800 \pm 50\text{Hz}$  | VR104        |
| 8.2V (DC)             | $2160 \pm 100\text{Hz}$ | VR105        |

#### 4-33. SWITCHING POWER SOURCE ADJUSTMENT (WITH AT MODE)

( AT POWER )

| TEST POINT  | MODE | TAPE USED  | M.EQ.     | INPUT SIGNAL | ADJUSTMENT |
|---|------|------------|-----------|--------------|------------|
| TP 5<br>TP 6  | PLAY | BLANK TAPE | VOLTMETER | -----        | VR 1       |
| SPEC :<br>TP 5 = +400V $\pm$ 10V $\oslash$ VR1<br>TP 6 = -400V $\pm$ 10V (CONFIRMATION) |      |            |           |              |            |

#### 4-34. OFFSET ADJUSTMENT (1) (WITH AT MODEL)

( AT POWER )

| TEST POINT   | MODE | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|--|------|-----------|--|--------------|------------|
| TP 1   | PLAY | -----     | VOLTMETER  | -----        | VR 2       |
| 1. Connect a jumper wire between TPG1 and TP9.             |      |           | TP1 = $0 \pm 0.3V$<br>(When TP9 and TPG1 are shorted.) |              |            |
| 2. Adjust VR2 so that the voltage at TP1 is $0 \pm 0.3V$ . |      |           |  |              |            |
| 3. Disconnect the connected jumper wire.                   |      |           |  |              |            |

#### 4-35. OFFSET ADJUSTMENT (2) (WITH AT MODEL)

( AT POWER )

| TEST POINT  | MODE | TAPE USED | M.EQ.   | INPUT SIGNAL | ADJUSTMENT |
|---|------|-----------|---|--------------|------------|
| TP 2  | PLAY | -----     | VOLTMETER   | -----        | VR 3       |
| 1. Connect a jumper wire between TPG1 and TP10.       |      |           | TP2 = 0 ± 0.3V<br>(When TP10 and TPG1 are shorted.) |              |            |
| 2. Adjust VR3 so that the voltage at TP2 is 0 ± 0.3V. |      |           |   |              |            |
| 3. Disconnect the connected jumper wire.              |      |           |   |              |            |

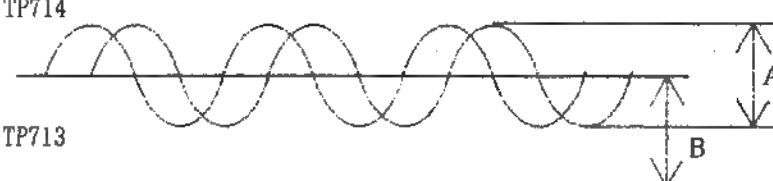
#### 4-36. MACHINE CONDITION SETTING (3) (WITH AT MODEL)

( W5 AT )

1. This adjustment procedure is required for machines equipped with Auto Tracking Function.
2. Confirm that the connector (P10) is connected to AT Power Board to supply the Auto Tracking voltage.
3. Before this AUTO TRACKING ADJ., the AT POWER BOARD should be adjusted (Refer to Section 4-33 ~ 4-35).
4. Before this AUTO TRACKING ADJ., the following adjustment should be completed.
  - (1) Y Playback FM Carrier Level Adjustment (7-1)
  - (2) Y Playback RF Level Adjustment (12-18)
  - (3) C Playback FM Carrier Level Adjustment (7-2)
  - (4) C Playback RF Level Adjustment (12-19)

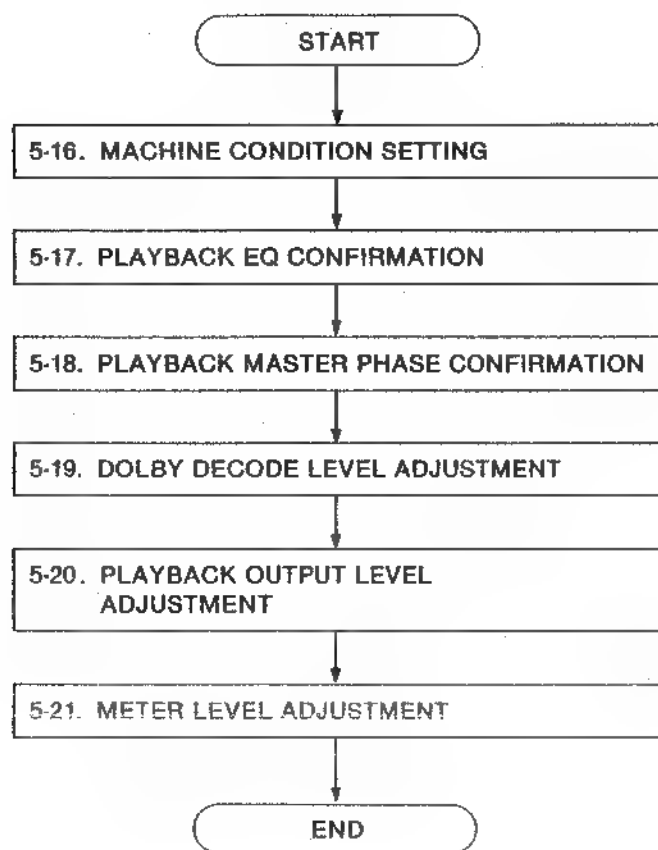
#### 4-37. CAPSTAN FG ADJUSTMENT (WITH AT MODEL)

( W5 AT )

| TEST POINT   | MODE | TAPE USED                         | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                       |
|--|------|-----------------------------------|--|--------------|--|
| TP713<br>TP714   | PLAY | ALIGNMENT<br>TAPE<br>(COLOUR BAR) | OSCILLOSCOPE   | -----        | VR708 (CAP FG1 OFFSET)<br>VR709 (CAP FG2 OFFSET) |
| Step 1.<br><br>SCOPE CH1 : TP713<br>SCOPE CH2 : TP714<br><br>1. Confirm that the "A" level is more than 0.8Vp-p.<br><br>2. Adjust VR708 (for TP713) and VR709 (for TP714) so that the DC level "(B)" is $2.5 \pm 0.2V$ (DC). |      |                                   | <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;"> <p>⊙ VR708</p> <p>⊙ VR709</p> </div> <div> <p>TP714</p>  <p>TP713</p> <p>GND (0V DC)</p> <p style="text-align: right;">A = More than 0.8Vp-p<br/>B = <math>2.5V \pm 0.2V</math> (DC)</p> </div> </div> |              |  |



## LINEAR AUDIO SECTION (W6) FLOWCHART FOR AU-63H/AU-63, AU-62H/AU-62



## 5. AUDIO (W6) BOARD (1/2)

### — LINEAR AUDIO SECTION —

#### 5-1. MACHINE CONDITION SETTING (FOR AU-65H / AU-65 LINEAR AUDIO)

Set the switches on the Front Panel as follows except special condition.

|  |       |                    |
|--|-------|--------------------|
| REC & PB VR                                    | ----- | PRESET (PUSHED IN) |
| METER SELECT                                   | ----- | LINEAR             |
| MODE   | ----- | EE                 |
| DOLBY  | ----- | OFF                |
| LIMITER  | ----- | OFF                |
| INPUT LEVEL SELECT ( on the Audio I/O Board )  | ----- | +0dBu              |
| OUTPUT LEVEL SELECT ( on the Audio I/O Board ) | ----- | +0dBu              |

#### 5-2. DOLBY ENCODER LEVEL ADJUSTMENT (FOR AU-65H / AU-65)

( AUDIO VR BOARD )

| TEST POINT                                   | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                  | ADJUSTMENT   |
|--|-------|-----------|--|-------------------------------|--|
| TP101 (CH1)<br>on W6<br>TP301 (CH2)<br>on W6 | EJECT | -----     | VTVM   | 1KHz Sinewave<br>Signal +0dBu | VR1 (CH1 DOLBY ENC)<br>on AUDIO VR<br>VR5 (CH2 DOLBY ENC)<br>on AUDIO VR |
| Step 1.<br>MACHINE CONDITION                 |       |           | Refer to Set Up Conditions at the beginning of this<br>SECTION (AUDIO - W6 Machine Condition 5-1). |                               |  |
| Step 2.<br>VTVM : TP101 (CH1)<br>TP301 (CH2) |       |           | ⊙ VR1, 5 (on AUDIO VR P.C.Board)<br>SPECIFICATION : -6dBu ± 0.2dB<br>( 387.5mVrms )                |                               |  |

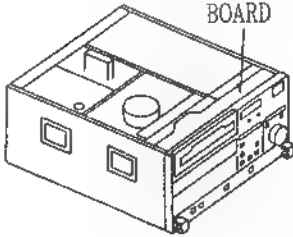
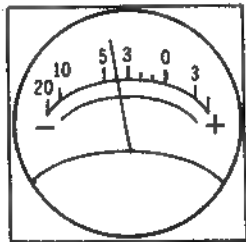
#### 5-3. E-E OUTPUT LEVEL ADJUSTMENT (FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT                                     | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                     | ADJUSTMENT                                     |
|--|-------|-----------|--|----------------------------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT         | EJECT | -----     | VTVM   | 1KHz Sinewave<br>Signal<br>0dBu. | VR101 (CH1 E-E OUT)<br><br>VR301 (CH2 E-E OUT) |
| Step 1.<br>MACHINE CONDITION                   |       |           | Refer to Set Up Conditions at the beginning of<br>this SECTION (AUDIO - W6 Machine Condition 5-1). |                                  |  |
| Step 2.<br>VTVM : CH1 LINE OUT<br>CH2 LINE OUT |       |           | ⊙ VR101, 301<br>SPECIFICATION : 0dBu ± 0.2dB   |                                  |  |

#### 5-4. METER LEVEL ADJUSTMENT (FOR AU-65H / AU-65)

( FRONT I/F BOARD )

| TEST POINT  | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL                     | ADJUSTMENT   |
|---|-------|-----------|---|----------------------------------|--|
| CH1<br>METER<br><br>CH2<br>METER  | EJECT | -----     | -----   | 1KHz Sinewave<br>Signal<br>0dBu. | VR101 (CH1 METER)<br>on Front Interface<br>VR102 (CH2 METER)<br>on Front Interface |
| Step 1.<br>MACHINE CONDITION  |       |           | Refer to Set Up Conditions at the beginning of<br>this SECTION (AUDIO - W6 Machine Condition 5-1).  |                                  |  |
| Step 2.<br>1. Adjust VR101 (CH1) and VR102 (CH2)<br>on the Front Interface Board so that<br>the meter indicates "-4" VU as shown. |       |           | <div style="display: flex; align-items: center;"> <div style="text-align: center;">  <p>FRONT INTERFACE<br/>BOARD</p> </div> <div style="margin-left: 20px;"> <p>⊗ VR101<br/>⊗ VR102</p> </div> <div style="margin-left: 20px;">  </div> </div> |                                  |  |

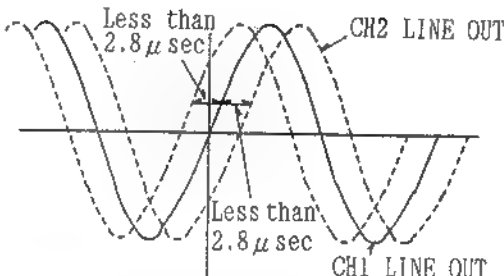


#### 5-5. PLAYBACK EQ ADJUSTMENT (FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT   | MODE | TAPE USED  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                 |
|--|------|--|---|--------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT   | PLAY | ALIGNMENT<br>TAPE<br>F. RESPONSE<br>ADJ. PORTION | VTVM  | -----        | SW101 (CH1 PB EQ)<br><br>SW301 (CH2 PB EQ) |
| Step 1.<br>MACHINE CONDITION   |      |  | Refer to Set Up Conditions at the beginning of this<br>SECTION (AUDIO - W6 Machine Condition 5-1).  |              |  |
| Step 2.<br>1. Play back the Frequency Response portion<br>of the Alignment Tape.<br><br>2. Confirm that the specification as shown.<br><br>3. If it is not within specification,<br>adjust SW101 (CH1) and SW301 (CH2).<br><br>4. Repeat Item 1, 2, 3 until the<br>specification is met. |      |  | <p>⊗ SW101, 301</p> <p>SPECIFICATION : 1KHz ~ 7.5KHz = <math>\pm 1</math>dB<br/> 7.5KHz ~ 15KHz = <math>+1.5</math>dB<br/> ( 1KHz Reference ) <math>-2.5</math>dB</p> |              |  |

## 5-6. PLAYBACK MASTER PHASE CONFIRMATION (FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT   | MODE | TAPE USED                          | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                       |
|--|------|------------------------------------|--|--------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT   | PLAY | ALIGNMENT<br>TAPE<br>15KHz PORTION | OSCILLOSCOPE   | -----        | A/C HEAD AZIMUTH<br>ADJUSTMENT<br>( MECHANICAL ) |
| Step 1.<br><br>MACHINE CONDITION   |      |                                    | 1. Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1).<br>2. The PLAYBACK EQ ADJ. (5-5) should be completed.   |              |  |
| Step 2.<br>SCOPE CH1 : CH1 LINE OUT<br>SCOPE CH2 : CH2 LINE OUT<br><br>1. Play back the 15KHz portion of the Alignment Tape.<br><br>2. Confirm that the phase difference is $0 \pm 2.8 \mu\text{sec}$ ( $\pm 15^\circ$ ).<br><br>3. If it is not, readjust the A/C Head Azimuth Mechanically (See Mech. Adj. Section).<br><br>4. After this adjustment is finished, readjust the PB EQ ADJ. (5-5). |      |                                    |  <p>Less than <math>2.8 \mu\text{sec}</math></p> <p>CH2 LINE OUT</p> <p>Less than <math>2.8 \mu\text{sec}</math></p> <p>CH1 LINE OUT</p> <p>or Place scope in X-Y mode and observe the pattern. Confirm both circles are in phase.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>SCOPE<br/>CH1<br/>CH2<br/>NO GOOD</p> </div> <div style="text-align: center;">  <p>SCOPE<br/>GOOD</p> </div> </div> |              |  |

## 5-7. DOLBY DECODE LEVEL ADJUSTMENT (FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT                                   | MODE | TAPE USED                                | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                     |
|--|------|--|---|--------------|--|
| TP101 (CH1)<br><br>TP301 (CH2)               | PLAY | ALIGNMENT<br>TAPE<br>1KHz 0VU<br>PORTION | VTVM  | -----        | VR103 (CH1 PB GAIN)<br><br>VR303 (CH2 PB GAIN) |
| Step 1.<br><br>MACHINE CONDITION             |      |  | Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1). |              |  |
| Step 2.<br>VTVM : TP101 (CH1)<br>TP301 (CH2) |      |  | ○ VR103, VR303<br>SPECIFICATION : $-6\text{dBu} \pm 0.2\text{dB}$<br>( $387.5\text{mVrms}$ )    |              |  |

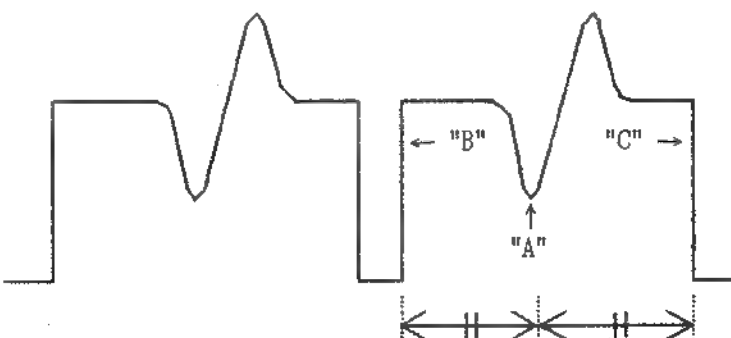
## 5-8. PLAYBACK OUTPUT LEVEL ADJUSTMENT (FOR AU-65H / AU-65)

( AUDIO VR BOARD )

| TEST POINT  | MODE | TAPE USED                                | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|---|------|--|--|--------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE<br>1KHz OVU<br>PORTION | VTVM   | -----        | VR3 (CH1 PB OUT)<br>on Audio VR<br>VR7 (CH2 PB OUT)<br>on Audio VR |
| Step 1.<br>MACHINE CONDITION  |      |  | Refer to Set Up Conditions at the beginning of<br>this SECTION (AUDIO - W6 Machine Condition 5-1). |              |  |
| Step 2.<br>VTVM : CH1 LINE OUT<br>CH2 LINE OUT<br><br>1. Adjust VR3 and VR7 on the Audio VR<br>Board so that the output level is<br>+0dBu $\pm$ 0.2dBu. |      |  | $\phi$ VR3, 7<br><br>SPECIFICATION : +0dBu $\pm$ 0.2dB.  |              |  |

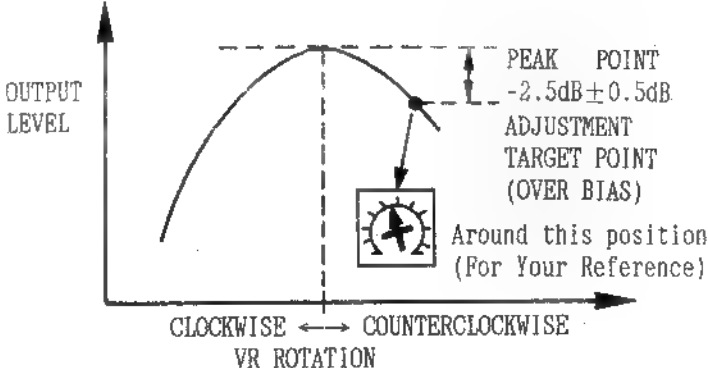
## 5-9. OSCILLATION RESONANCE POINT ADJUSTMENT (FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT   | MODE | TAPE USED  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|--|------|------------|--|--------------|--|
| HOT : TP551<br>TP552<br>TP553<br>TP554<br>TP555<br>TP556<br>TP557<br>TP558<br>GND : TPG551   | REC  | BLANK TAPE | OSCILLOSCOPE   | -----        | T551 (CH1 BIAS )<br>T552 (CH2 BIAS )<br>T553 (CH1 ERASE )<br>T554 (CH2 ERASE )<br>T555 (TC BIAS )<br>T556 (TC ERASE )<br>T557 (CTL ERASE )<br>T558 (FULL ERASE ) |
| Step 1.<br>MACHINE CONDITION   |      |            | Refer to Set Up Conditions at the beginning of this<br>SECTION (AUDIO - W6 Machine Condition 5-1). |              |  |
| Step 2.<br>SCOPE : The Connect & adjust for<br>each Test Point.<br><br>1. Adjust each coil so that the "A"<br>point of the waveform is in the<br>centre between "B" and "C". |      |            |                |              |  |

# 5-10. AUDIO BIAS CURRENT ADJUSTMENT (FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT  | MODE           | TAPE USED  | M.EQ.   | INPUT SIGNAL                   | ADJUSTMENT                                       |
|---|----------------|------------|---|--------------------------------|--|
| CH1<br>LINE OUT<br>(TP102)<br>CH2<br>LINE OUT<br>(TP302)  | SELF<br>REC/PB | BLANK TAPE | VIVM  | 10KHz Sinewave<br>Signal +0dBu | VR551 (CH1 BIAS CURR.)<br>VR552 (CH2 BIAS CURR.) |
| Step 1.<br>MACHINE CONDITION  |                |            | Refer to Set Up Conditions at the beginning of this<br>SECTION (AUDIO - W6 Machine Condition 5-1).  |                                |  |
| Step 2.<br><br>1. Place the unit in the recording mode.<br>2. Turn VR551 (CH1) from fully clockwise<br>position to fully counterclockwise<br>position slowly while in the recording.<br>3. VIVM : CH1 LINE OUT (or TP102)<br>4. Play back the just recorded portion.<br>5. Find the audio peak level and notate<br>that level.<br>6. Set VR551 around its centre position.<br>7. Make a recording, then playback that<br>portion.<br>8. Confirm that the audio output level is<br>$-2.5\text{dB} \pm 0.5\text{dB}$ (Bias Saturation point)<br>from the Audio Peak Level.<br>9. If it is not, repeat from Steps 6<br>through 8 until the Audio Bias is<br>$-2.5\text{dB} \pm 0.5\text{dB}$ from the Audio Peak<br>Level. |                |            | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>⊗ VR551</p> <p>⊗ VR552</p> </div> <div>  </div> </div> |                                |  |
| Note :<br>CH2 AUDIO BIAS CURR. ADJ. procedure<br>is the same as CH1.<br>(CH2 LINE OUT : TP302)  |                |            |   |                                |  |

# 5-11. RECORDING EQUALIZER ADJUSTMENT (FOR AU-65H / AU-65)

( W AUDIO )

| TEST POINT  | MODE           | TAPE USED  | M.EQ.   | INPUT SIGNAL                              | ADJUSTMENT   |
|---|----------------|------------|---|---|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | SELF<br>REC/PB | BLANK TAPE | VTVM  | 1KHz ~ 15KHz<br>Sinewave Signal<br>-10dBu | VR203 (CH1 REC EQ)<br>SW201<br>VR403 (CH2 REC EQ)<br>SW401 |
| Step 1.<br><br>MACHINE CONDITION  |                |            | 1. Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1).<br>2. The Audio Bias Current Adjustment (Section 5-10) should be completed.            |   |  |
| Step 2.<br><br>1. Supply a 1KHz sinewave signal at -10dBu to CH1 and CH2 inputs.<br><br>2. Insert a work cassette and place the unit in the recording mode.<br><br>3. During recording mode, change the Audio Frequency from 1KHz to 7.5KHz, 12.5KHz and 15KHz.<br><br>4. Play back the just recorded portion and confirm that the output level is within the specification as shown.<br><br>5. If it is not, adjust VR203 and SW201.<br><br>6. Repeat from Item 3 to 4 until the output level is in specification.<br><br>Note :<br>VR203 (VR403) : CH1 REC EQ (CH2 REC EQ)<br>SW201 (SW401) : CH1 REC EQ (CH2 REC EQ)<br><br>1. CH2 REC EQ ADJ. procedure is same as CH1. |                |            | <div>⊗ VR203    ⊗ VR403</div> <div>SW201      SW401</div> <div>SPECIFICATION :</div> <div>1KHz ~ 7.5KHz = ± 1dB</div> <div>7.5KHz ~ 15KHz = +1.5/-2.5dB</div> <div>(1KHz Reference)</div> |   |  |

## 5-12. RECORDING CURRENT ADJUSTMENT (FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT  | MODE           | TAPE USED  | M.EQ.  | INPUT SIGNAL                     | ADJUSTMENT   |
|---|----------------|------------|--|----------------------------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | SELF<br>REC/PB | BLANK TAPE | VTVM   | 1KHz Sinewave<br>Signal<br>+0dBu | VR202 (CH1 REC CURR.)<br><br>VR402 (CH2 REC CURR.) |
| Step 1.<br>MACHINE CONDITION  |                |            | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 5-1).                       |                                  |  |
| Step 2.<br><br>1. VTVM : CH1 LINE OUT<br>CH2 LINE OUT<br><br>2. Make a recording.<br><br>3. Play back the just recorded portion,<br>and confirm that the output level is<br>+0dBu $\pm$ 0.2dB at CH1 and CH2 outputs. |                |            | 4. If it is not, adjust VR202 (VR402).<br><br>5. Repeat the Item 2 and 3 until the output level is<br>+0dBu $\pm$ 0.2dB. |                                  |  |

## 5-13. CH1 $\rightarrow$ CH2 CROSS TALK CANCEL ADJUSTMENT (FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT  | MODE          | TAPE USED  | M.EQ.  | INPUT SIGNAL                            | ADJUSTMENT  |
|---|---------------|------------|--|---|---|
| CH2<br>LINE OUT   | CH1<br>INSERT | BLANK TAPE | VTVM   | 1KHz & 9KHz<br>Sinewave Signal<br>+0dBu | VR205 (CH1 HIGH CTC)<br><br>VR206 (CH1 CTC LEVEL) |
| Step 1.<br>MACHINE CONDITION  |               |            | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 5-1).   |   |   |
| Step 2.<br><br>1. VTVM : CH2 LINE OUT<br><br>2. Supply a 1KHz sinewave signal at +0dBu<br>to CH1 and CH2 Input.<br><br>3. Place the unit in the CH1 INSERT mode.<br><br>4. Confirm that the CH2 Audio Output Level<br>is Less than -25dBu.<br><br>5. If it is not, adjust VR205 so that the<br>CH2 Audio Output Level is less than<br>-25dBu at CH2 LINE OUT. |               |            | Step 3.<br><br>1. VTVM : CH2 LINE OUT<br><br>2. Supply a 9KHz sinewave signal at +0dBu to CH1 and<br>CH2 Input.<br><br>3. Place the unit in the CH1 INSERT mode.<br><br>4. Confirm that the CH2 Audio Output Level is<br>Less than -25dBu.<br><br>5. If it is not, adjust VR206 so that the CH2 Audio Output<br>Level is less than -25dBu at CH2 LINE OUT. |   |   |



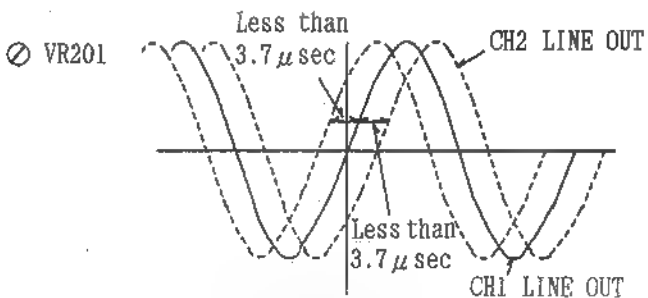


5-14. CH2 → CH1 CROSS TALK CANCEL ADJUSTMENT  
(FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT  | MODE          | TAPE USED  | M.EQ.  | INPUT SIGNAL                            | ADJUSTMENT                                    |
|---|---------------|------------|--|---|---|
| CH1<br>LINE OUT   | CH2<br>INSERT | BLANK TAPE | VTVM   | 1KHz & 9KHz<br>Sinewave Signal<br>+0dBu | VR405 (CH2 HIGH CTC)<br>VR406 (CH2 CTC LEVEL) |
| Step 1.<br>MACHINE CONDITION  |               |            | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 5-1).   |   |   |
| Step 2.<br><br>1. VTVM : CH1 LINE OUT<br><br>2. Supply a 1KHz sinewave signal at +0dBu<br>to CH1 and CH2 Input.<br><br>3. Place the unit in the CH2 INSERT mode.<br><br>4. Confirm that the CH1 Audio Output Level<br>is Less than -25dBu.<br><br>5. If it is not, adjust VR405 so that the<br>CH1 Audio Output Level is less than<br>-25dBu at CH1 LINE OUT. |               |            | Step 3.<br><br>1. VTVM : CH1 LINE OUT<br><br>2. Supply a 9KHz sinewave signal at +0dBu to CH1 and<br>CH2 Input.<br><br>3. Place the unit in the CH2 INSERT mode.<br><br>4. Confirm that the CH1 Audio Output Level is<br>Less than -25dBu.<br><br>5. If it is not, adjust VR406 so that the CH1 Audio Output<br>Level is less than -25dBu at CH1 LINE OUT. |   |   |

# 5-15. RECORDING PHASE ADJUSTMENT (FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT  | MODE           | TAPE USED  | M.EQ.   | INPUT SIGNAL                      | ADJUSTMENT        |
|---|----------------|------------|---|-----------------------------------|-------------------|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | SELF<br>REC/PB | BLANK TAPE | OSCILLOSCOPE  | 10KHz<br>Sinewave Signal<br>+0dBu | VR201 (REC P. S.) |
| Step 1.<br><br>MACHINE CONDITION  |                |            | 1. Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1).<br>2. The PLAYBACK MASTER PHASE ADJ. (5-6) should be completed before this adjustment is done.   |                                   |                   |
| Step 2.<br><br>1. SCOPE CH1 : CH1 LINE OUT<br>SCOPE CH2 : CH2 LINE OUT<br><br>2. Make a recording.<br><br>3. Play back the just recorded portion.<br><br>4. Confirm that the phase difference is $0 \pm 3.7 \mu\text{sec}$ ( $\pm 20^\circ$ ).<br><br>5. If it is not, adjust VR201 and repeat from Item 2 to Item 4 until the phase difference becomes $0 \pm 3.7 \mu\text{sec}$ ( $\pm 20^\circ$ ). |                |            | <div>  <p>or Place scope in X-Y mode and observe the pattern.<br/>Confirm both circles are in phase.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>SCOPE</p>  <p>NO GOOD</p> </div> <div style="text-align: center;"> <p>SCOPE</p>  <p>GOOD</p> </div> </div> </div> |                                   |                   |

**5-16. MACHINE CONDITION SETTING**  
**(FOR AU-63H/62H and AU-63/62 LINEAR AUDIO)**

Set the switches on the Front Panel as follows except special condition.

|  |       |                    |
|--|-------|--------------------|
| PB VR  | ----- | PRESET (PUSHED IN) |
| METER SELECT                                   | ----- | LINEAR             |
| DOLBY  | ----- | OFF                |
| OUTPUT LEVEL SELECT ( on the Audio I/O Board ) | ----- | +0dBu              |

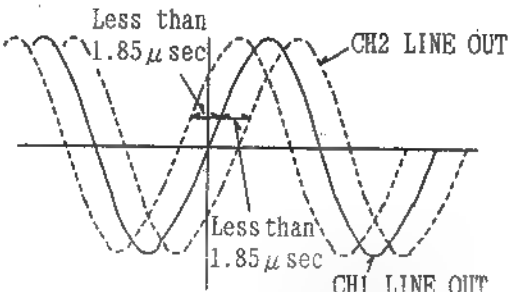


**5-17. PLAYBACK EQ CONFIRMATION**  
**(FOR AU-62H/63H and AU-62/63)**

( W6 AUDIO )

| TEST POINT  | MODE | TAPE USED  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|---|------|--|--|--------------|------------|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE<br>F. RESPONSE<br>ADJ. PORTION | VTVM   | -----        | -----      |
| Step 1.<br>MACHINE CONDITION  |      |  | Refer to Set Up Conditions at 5-16 Machine<br>Condition Setting (for AU-63H/62H and AU-63/62).         |              |            |
| Step 2.<br><br>1. Play back the Frequency Response<br>portion of the Alignment Tape.<br><br>2. Confirm that the specification is met. |      |  | SPECIFICATION : 1KHz ~ 7.5KHz = $\pm$ 1dB<br>7.5KHz ~ 15KHz = +1.5dB<br>-2.5dB<br><br>(1KHz Reference) |              |            |

# 5-18. PLAYBACK MASTER PHASE CONFIRMATION (FOR AU-62H/63H and AU-62/63)

( W6 AUDIO )

| TEST POINT   | MODE | TAPE USED                          | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                     |
|--|------|------------------------------------|--|--------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT   | PLAY | ALIGNMENT<br>TAPE<br>15KHz PORTION | OSCILLOSCOPE   | -----        | A/C HEAD AZIMUTH<br>ADJUSTMENT<br>(MECHANICAL) |
| Step 1.<br>MACHINE CONDITION   |      |                                    | 1. Refer to Set Up Conditions at 5-16 Machine Condition Setting (for AU-63H/62H and AU-63/62).<br>2. The PLAYBACK EQ CONFIRMATION (5-17) should be completed.  |              |  |
| Step 2.<br><br>SCOPE CH1 : CH1 LINE OUT<br>SCOPE CH2 : CH2 LINE OUT<br><br>1. Play back the 15KHz portion of the Alignment Tape.<br><br>2. Confirm that the phase difference is $0 \pm 2.8 \mu\text{sec}$ ( $\pm 15^\circ$ ).<br><br>3. If it is not, readjust the A/C Head Azimuth Mechanically (See Mech. Adj. Section).<br><br>4. After this adjustment is finished, reconfirm the PB EQ CONFIRMATION (5-17). |      |                                    | <br>or Place scope in X-Y mode and observe the pattern. Confirm both circles are in phase.<br><div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> SCOPE<br/> <br/> NO GOOD </div> <div style="text-align: center;"> SCOPE<br/> <br/> GOOD </div> </div> |              |  |

# 5-19. DOLBY DECODE LEVEL ADJUSTMENT (FOR AU-62H/63H and AU-62/63)

( W6 AUDIO )

| TEST POINT                                       | MODE | TAPE USED                                | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                     |
|--|------|--|--|--------------|--|
| TP101 (CH1)<br><br>TP301 (CH2)                   | PLAY | ALIGNMENT<br>TAPE<br>1KHz OVU<br>PORTION | VTVM   | -----        | VR103 (CH1 PB GAIN)<br><br>VR303 (CH2 PB GAIN) |
| Step 1.<br>MACHINE CONDITION                     |      |  | Refer to Set Up Conditions at 5-16 Machine Condition Setting (for AU-63H/62H and AU-63/62).      |              |  |
| Step 2.<br><br>VTVM : TP101 (CH1)<br>TP301 (CH2) |      |  | ⊙ VR103, VR303<br><br>SPECIFICATION : $-6\text{dBu} \pm 0.2\text{dB}$<br>( $387.5\text{mVrms}$ ) |              |  |

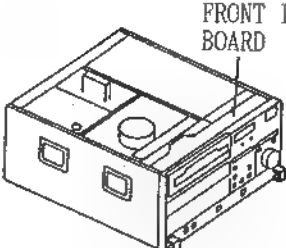
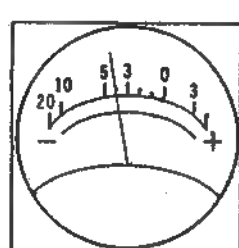
## 5-20. PLAYBACK OUTPUT LEVEL ADJUSTMENT (FOR AU-62H/63H and AU-62/63)

( W6 AUDIO )

| TEST POINT   | MODE | TAPE USED                                | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|--|------|--|--|--------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT   | PLAY | ALIGNMENT<br>TAPE<br>1KHz OVU<br>PORTION | VTVM   | -----        | VR3 (CH1 PB OUT)<br>on Audio VR<br>VR7 (CH2 PB OUT)<br>on Audio VR |
| Step 1.<br>MACHINE CONDITION   |      |  | Refer to Set up Conditions at 5-16 Machine<br>Condition Setting (for AU-63H/62H and AU-63/62). |              |  |
| Step 2.<br><br>VTVM : CH1 LINE OUT<br>CH2 LINE OUT<br><br>1. Adjust VR3 and VR7 on the Audio VR<br>Board so that the output level is<br>+0dBu $\pm$ 0.2dB. |      |  | $\bigcirc$ VR3, 7<br><br>SPECIFICATION : +0dBu $\pm$ 0.2dB.                                    |              |  |

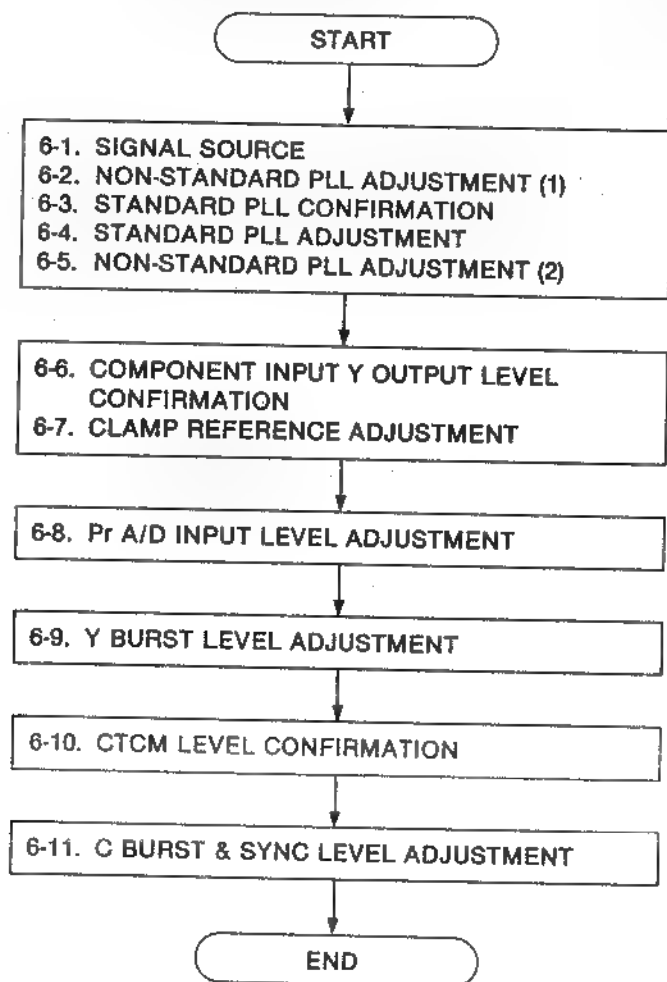
## 5-21. METER LEVEL ADJUSTMENT (FOR AU-62H/63H and AU-62/63)

( W6 AUDIO )

| TEST POINT  | MODE  | TAPE USED                                | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|---|-------|--|---|--------------|--|
| CH1<br>METER<br><br>CH2<br>METER  | EJECT | ALIGNMENT<br>TAPE<br>1KHz OVU<br>PORTION | -----   | -----        | VR101 (CH1 METER)<br>on Front Interface<br>VR102 (CH2 METER)<br>on Front Interface |
| Step 1.<br>MACHINE CONDITION  |       |  | Refer to Set Up Conditions at 5-16 Machine<br>Condition Setting (for AU-63H/62H and AU-63/62).  |              |  |
| Step 2.<br><br>1. Adjust VR101 (CH1) and VR102 (CH2)<br>on the Front Interface Board so that<br>the meter indicates "-4" VU as shown. |       |  | <div style="display: flex; align-items: center;"> <div style="text-align: center;">  <p>FRONT INTERFACE<br/>BOARD</p> </div> <div style="margin-left: 20px;"> <p><math>\bigcirc</math> VR101<br/><math>\bigcirc</math> VR102</p> </div> <div style="margin-left: 20px;">  </div> </div> |              |  |

## 6. DECODER & CTCM (W4) BOARD (1/2) (FOR AU-65H/AU-65 ONLY)

### DECODER & CTCM SECTION (1/2) (W4) FLOWCHART



## 6. DECODER & CTCM (W4) BOARD (1/2) (FOR AU-65 ONLY)

### 6-1. SIGNAL SOURCE


( W4 DEC & CTCM )

Confirm the Signal Level of Signal Generator as follows.

- |                      |  |
|----------------------|--|
| 1. COMPOSITE SIGNAL  | 100% (without SET UP)<br>VIDEO LEVEL = 0.7Vp-p<br>SYNC LEVEL = 0.3Vp-p   |
| 2. COMPONENT SIGNAL  | 100% (without SET UP)<br>Y VIDEO LEVEL = 0.7Vp-p<br>Y SYNC LEVEL = 0.3Vp-p<br>PB LEVEL = 0.7Vp-p<br>PR LEVEL = 0.7Vp-p |
| 3. Y/C SIGNAL        | 100% (without SET UP)<br>Y VIDEO LEVEL = 0.7Vp-p<br>Y SYNC LEVEL = 0.3Vp-p<br>CHROMA LEVEL = 0.885Vp-p                 |
| 4. DUB (CTCM) SIGNAL | 100% (without SET UP)<br>Y VIDEO LEVEL = 0.7Vp-p<br>Y SYNC LEVEL = 0.3Vp-p<br>CTCM (PR) LEVEL = 0.7Vp-p                |

### 6-2. NON-STANDARD PLL ADJUSTMENT (1) (FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL   | ADJUSTMENT                               |
|--|----------------|-----------|---|--|--|
| TP701  | E-E<br>(EJECT) | -----     | Digital<br>Voltage<br>Meter<br>(OSCILLOSCOPE) | COMPONENT<br>100%<br>COLOUR BAR  | VL701 (NSTD OFFSET)<br>VR702 (PLL POS 1) |
| Step 1.<br>MACHINE CONDITION   |                |           | STD/NSTD SELECT : NSTD<br>(Set Up Menu)       |  |  |
| Step 2.<br>1. D. V. M. (SCOPE) : TP701<br>2. Adjust VL701 so that the DC voltage is<br>0 ± 0.2V (DC) at TP701. |                |           | ⊙ VL701<br>TP701 = 0 ± 0.2V (DC)              |  |  |
| Step 3.<br>1. Set VR702 as shown in figure.  |                |           | VR702   |  |  |

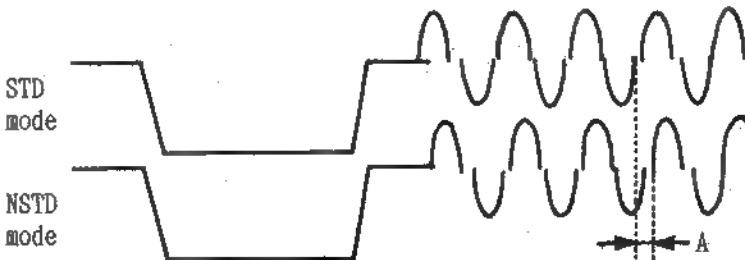
### 6-3. STANDARD PLL CONFIRMATION (FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT |
|---|----------------|-----------|--|---------------------------------|------------|
| TP702   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100%<br>COLOUR BAR | -----      |
| Step 1.<br>MACHINE CONDITION<br>( STD mode )  |                |           | 1. Set-up Menu No. 1011 → 00 FRONT SWITCH<br>2. Input signal is standard signal from signal generator. |                                 |            |
| Step 2.<br>1. SCOPE : TP702<br>2. Confirm that the DC voltage is<br>$0 \pm 1V$ (DC) at TP702. |                |           | TP702 = $0 \pm 1V$ (DC)  |                                 |            |

### 6-4. STANDARD PLL ADJUSTMENT (FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                    | ADJUSTMENT        |
|---|----------------|-----------|---|---------------------------------|-------------------|
| TP504   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOUR BAR | VR703 (PLL POS 2) |
| Step 1.<br>MACHINE CONDITION<br>( STD mode )  |                |           | 1. Set-up Menu No. 1011 → 00 FRONT SWITCH<br>2. Input signal is standard signal from signal generator.  |                                 |                   |
| Step 2.<br>1. SCOPE : TP504<br>2. Trigger the scope at composite sync of<br>signal generator.<br>3. Change the STD/NSTD by Set-up Menu<br>alternately.<br>4. Confirm that the phase difference ("A")<br>is less than 10 nsec. |                |           | <div style="text-align: center;">           TP504 ⊙ VR703         </div>  <div style="text-align: center; margin-top: 10px;">           A = Less than 10 nsec.         </div> |                                 |                   |



## 6-5. NON-STANDARD PLL ADJUSTMENT (2) (FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT        |
|---|----------------|-----------|--|---------------------------------|-------------------|
| TP703   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100%<br>COLOUR BAR | VR702 (PLL POS 1) |
| Step 1.<br>MACHINE CONDITION<br>( STD mode )  |                |           | 1. Set-up Menu No. 1011 → 00 FRONT SWITCH<br>2. Input signal is standard signal from signal generator.   |                                 |                   |
| Step 2.<br>1. SCOPE : TP703<br>2. Trigger the scope at composite sync of signal generator.<br>3. Change the STD/NSTD by Set-up Menu alternately.<br>4. Confirm that the pulse position is same at STD mode and NSTD mode. (STD mode is reference)<br>5. If it is not, adjust VR702 so that the NSTD pulse position is same as STD pulse position. (Less than $\pm 10\text{nsec.}$ ) |                |           | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">           TP703<br/>           ⓪ VR702         </div> </div> |                                 |                   |

## 6-6. COMPONENT INPUT Y OUTPUT LEVEL CONFIRMATION (FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT |
|--|----------------|-----------|--|---------------------------------|------------|
| TP504  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100%<br>COLOUR BAR | -----      |
| Step 1.<br>MACHINE CONDITION   |                |           | 1. INPUT SELECT : COMPONENT<br>(on Pull Out Drawer)<br>2. YC/COMPONENT SELECT : COMPONENT<br>(on Front Sub Panel)                                |                                 |            |
| Step 2.<br>1. SCOPE : TP504<br>2. Confirm that the VIDEO Level (A) is $570 \pm 30\text{mVp-p}$ . |                |           | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">           TP504<br/>           ⓪ VR207         </div> </div> |                                 |            |

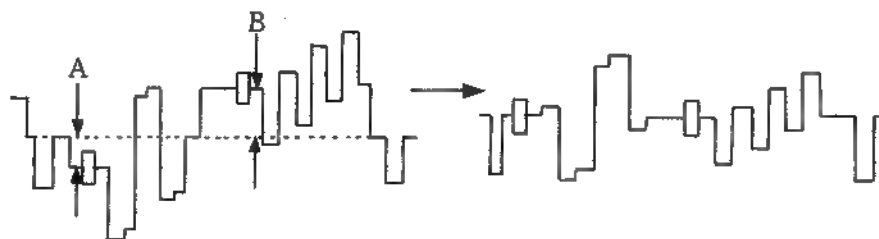
## 6-7. CLAMP REFERENCE ADJUSTMENT

( W4 DEC & CTOM )

| TEST POINT | MODE           | TAPE USED | M.EQ.                             | INPUT SIGNAL                    | ADJUSTMENT                                   |
|------------|----------------|-----------|-----------------------------------|---------------------------------|--|
| TP601      | E-E<br>(EJECT) | -----     | OSCILLOSCOPE<br>or<br>VECTORSCOPE | COMPOSITE<br>100%<br>COLOUR BAR | VR601 (PB CLAMP REF)<br>VR602 (PR CLAMP REF) |

### Step 1. (With by OSCILLOSCOPE)

- Adjust VR601 and VR602 so that level differences of "A" and "B" portion are minimum as shown in below.

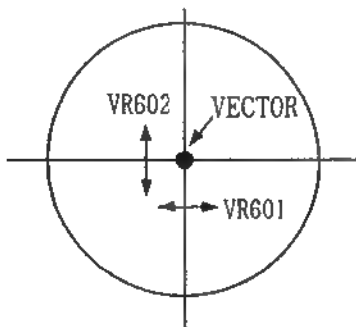


Note:

Expand the level of measurement portion on scope for precise adjustment.

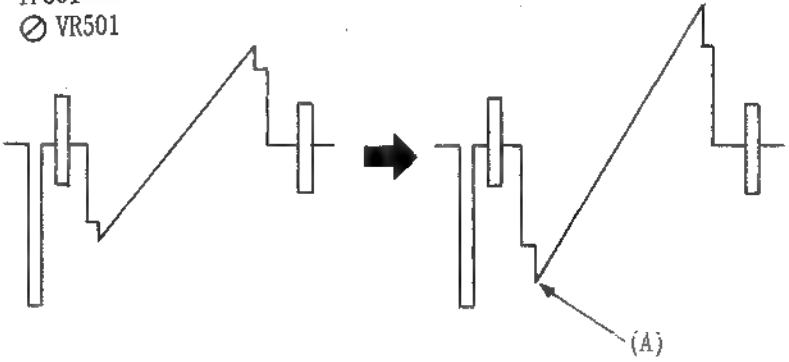
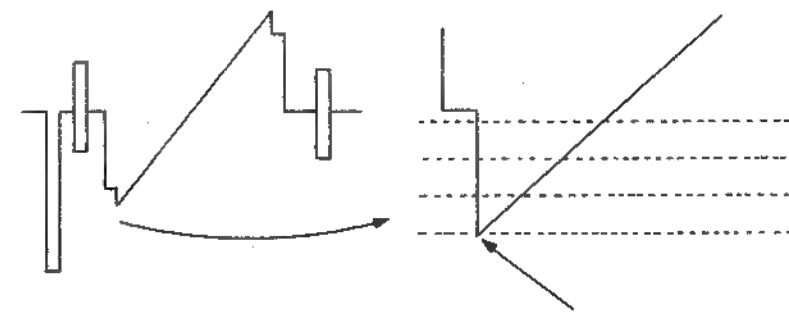
### Step 2. (With by VECTORSCOPE)

- Adjust VR601 and VR602 so that the colour vectors comes to center as shown below.



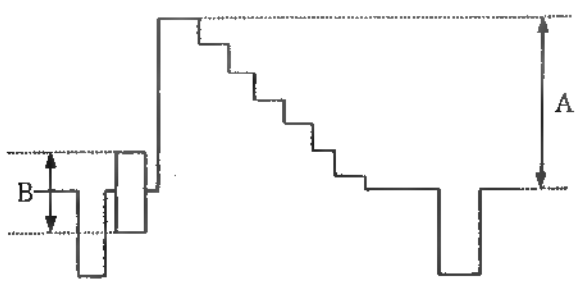
6-8. Pr A/D INPUT LEVEL ADJUSTMENT  
(FOR AU-65H / AU-65)

( W4 DEC & CTOM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL               | ADJUSTMENT                               |
|---|----------------|-----------|---|----------------------------|--|
| TP601   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>OVERSIZE RAMP | VR501 (Pr LEV. 2)<br>SW701 (Wobbling SW) |
| Step 1.<br>CONDITION  |                |           | SCOPE SETTING<br>1. This adjustment needs 1 : 1 probe.<br>2. MODE : ADD                                 |                            |  |
| Step 2. (CORSE)<br><br>1. SCOPE CH1 : TP601<br>SCOPE CH2 : NO SIGNAL<br><br>2. SW701 : ADJ side<br><br>3. Adjust VR501 so that the portion<br>(A) level becomes just saturated<br>as shown in figure.   |                |           | TP601<br>○ VR501<br> |                            |  |
| Step 3. (FINE)<br><br>1. SCOPE SETTING : 50mV/DIV.<br><br>2. Adjust VR501 so that the cyan portion<br>(A) level is just at the saturation<br>point (or drop of level in the 3<br>digital steps from the saturated<br>point) as shown in figure.<br><br>3. SW701 : NORM side |                |           |                     |                            |  |

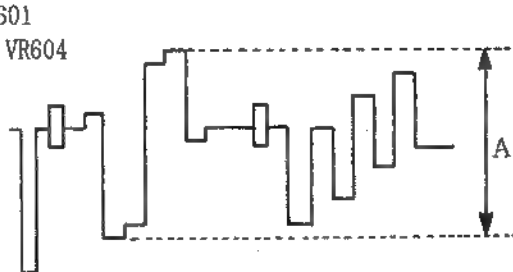
# 6-9. Y BURST LEVEL ADJUSTMENT (FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT        |
|--|----------------|-----------|--|---------------------------------|-------------------|
| TP504  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100%<br>COLOUR BAR | VR503 (Y BU LEV.) |
| Step 1.<br><br>1. SCOPE : TP504<br><br>2. Adjust VR503 so that $A : B = 7 : 3 \pm 0.3$ as shown in figure. |                |           |  <p style="text-align: center;"><math>A : B = 7 : 3 \pm 0.3</math></p> |                                 |                   |

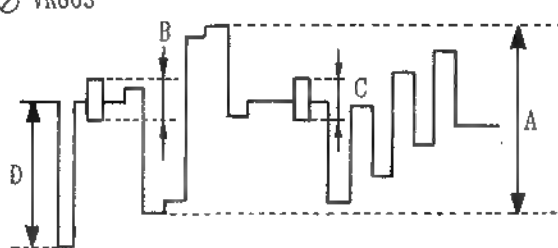
# 6-10. CTCM LEVEL CONFIRMATION (FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT        |
|---|----------------|-----------|--|---------------------------------|-------------------|
| TP601<br>(Y OUT)  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100%<br>COLOUR BAR | VR604 (CTCM LEV.) |
| Step 1.<br><br>1. SCOPE : TP601<br><br>2. Adjust VR604 so that the Pr peak to peak level (A) is $670 \pm 8\text{mVp-p}$ . |                |           |  <p style="text-align: center;"><math>A = 670 \pm 8\text{mVp-p}</math></p> |                                 |                   |

# 6-11. C BURST & SYNC LEVEL ADJUSTMENT (FOR AU-65H / AU-65)

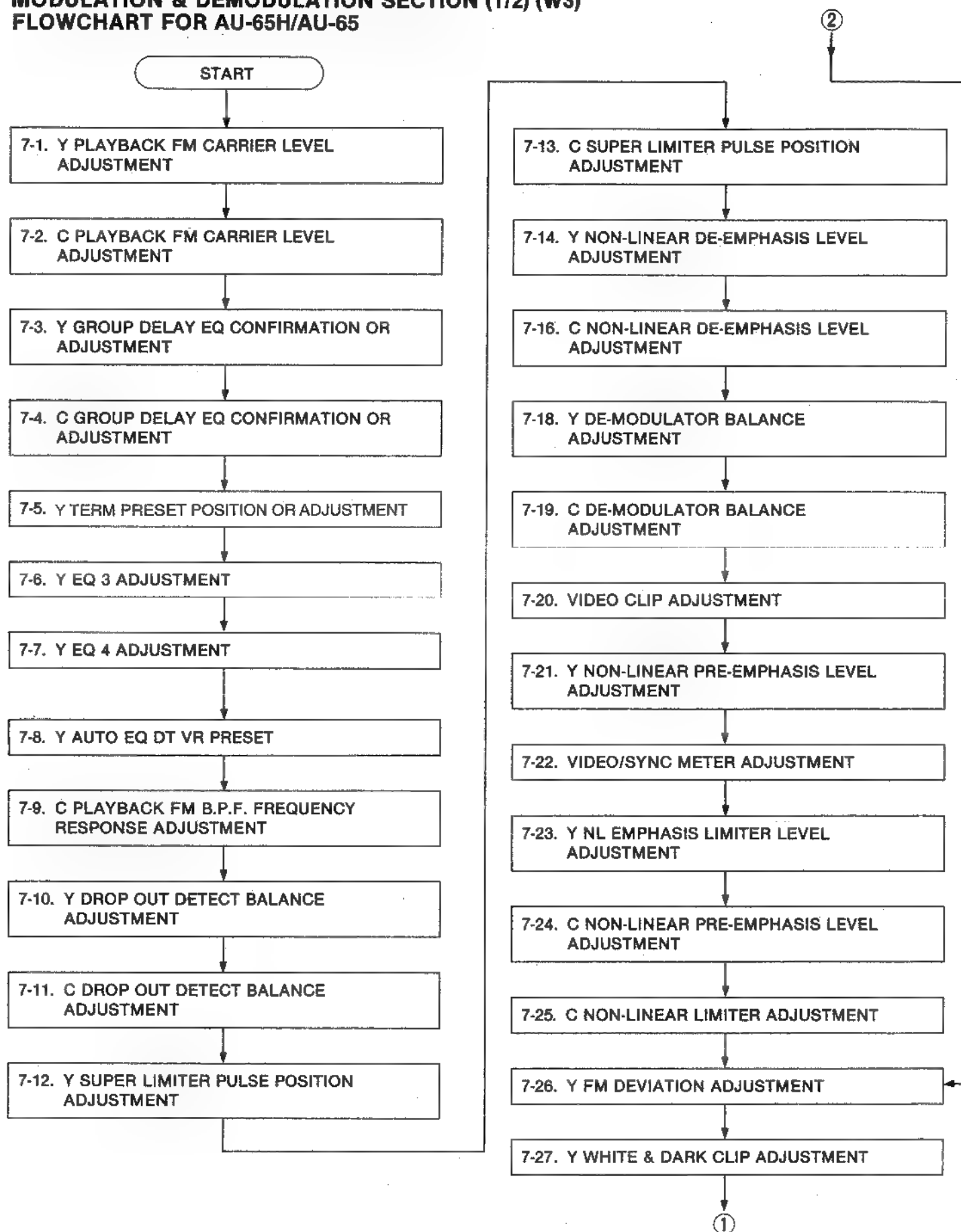
( W4 DEC & CTCM )

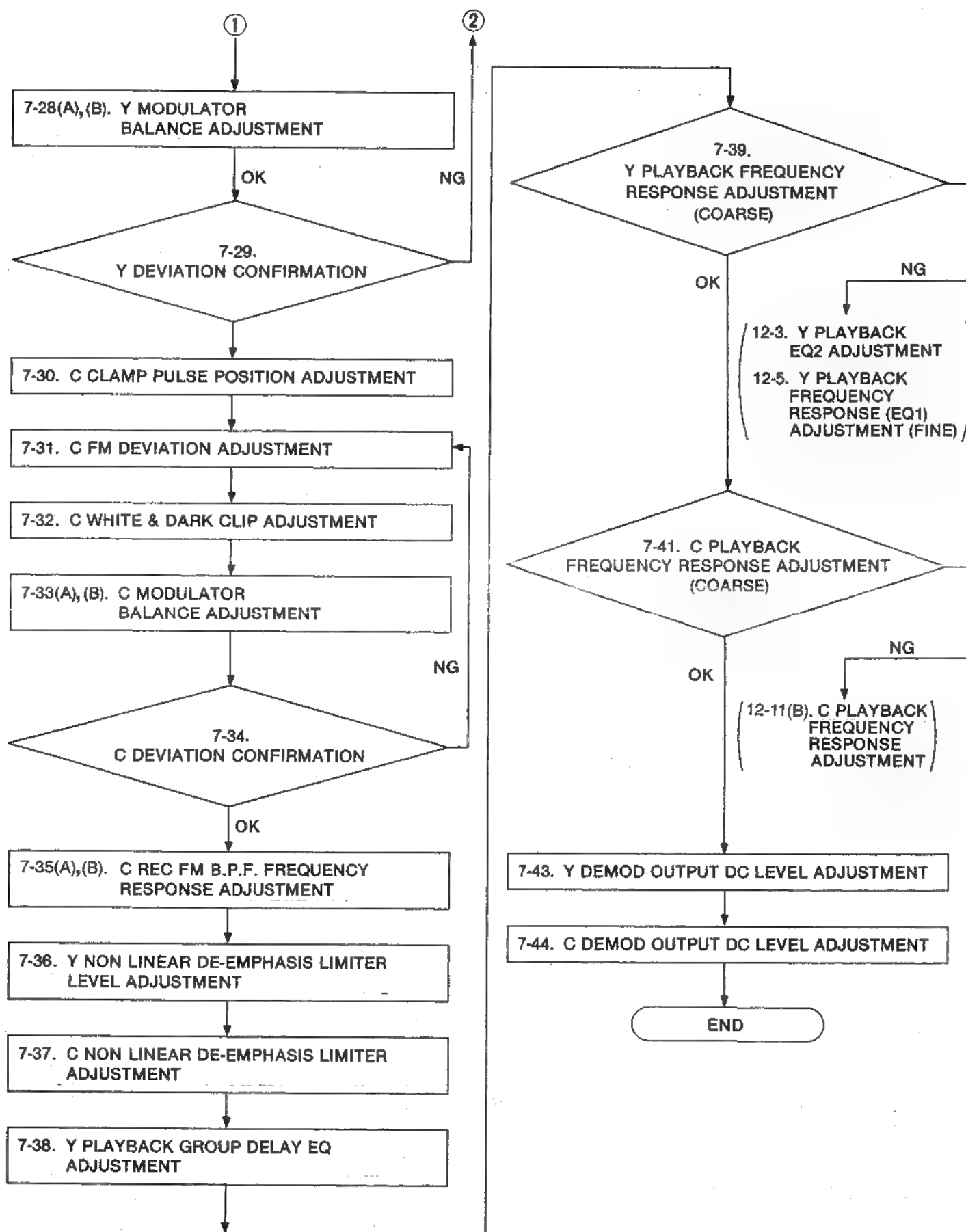
| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                    | ADJUSTMENT                             |
|--|----------------|-----------|---|---------------------------------|--|
| TP601  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOUR BAR | VR504 (C BU LEV.)<br>VR603 (C SY LEV.) |
| <p>Step 1.</p> <p>1. SCOPE : TP601</p> <p>2. Adjust VR504 so that A : B (C) = 7 : 3 (<math>\pm 0.09</math>) as shown in figure set A to 7 divisions using uncal control.</p> <p>3. Adjust VR603 so that A : D = 7 : 6.5 (<math>\pm 0.2</math>) as shown in figure.</p> <p>Note:<br/>When adjust VR504, expand the time/div of the scope.</p> |                |           | <p>TP601</p> <p>⊗ VR504</p> <p>⊗ VR603</p>  <p>A : B (C) = 7 : 3 (<math>\pm 0.09</math>)<br/>A : D = 7 : 6.5 (<math>\pm 0.2</math>)</p> |                                 |  |

## 7. MODULATION & DEMODULATION (W3) BOARD (1/2)

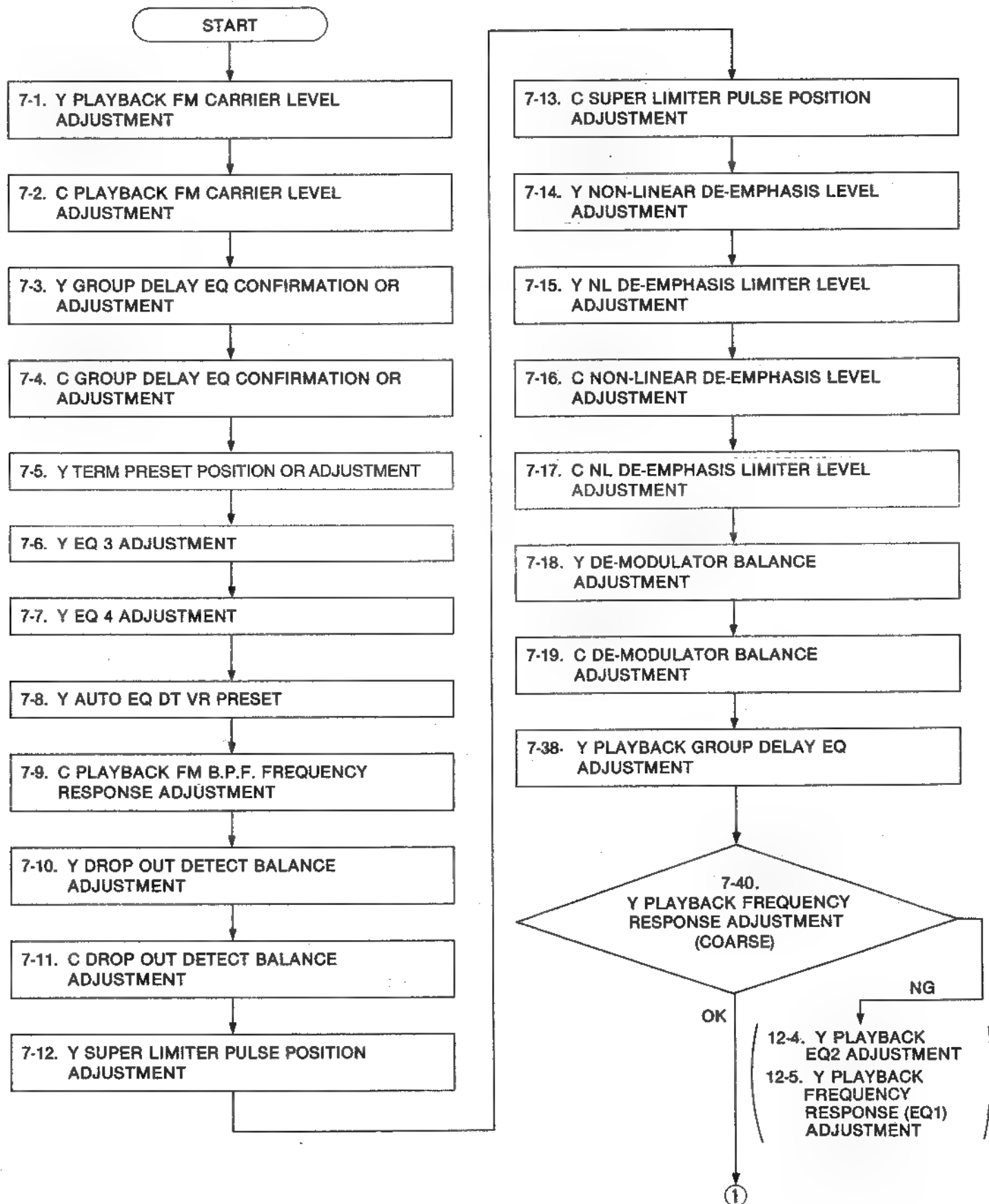
### MODULATION & DEMODULATION SECTION (1/2) (W3)

#### FLOWCHART FOR AU-65H/AU-65

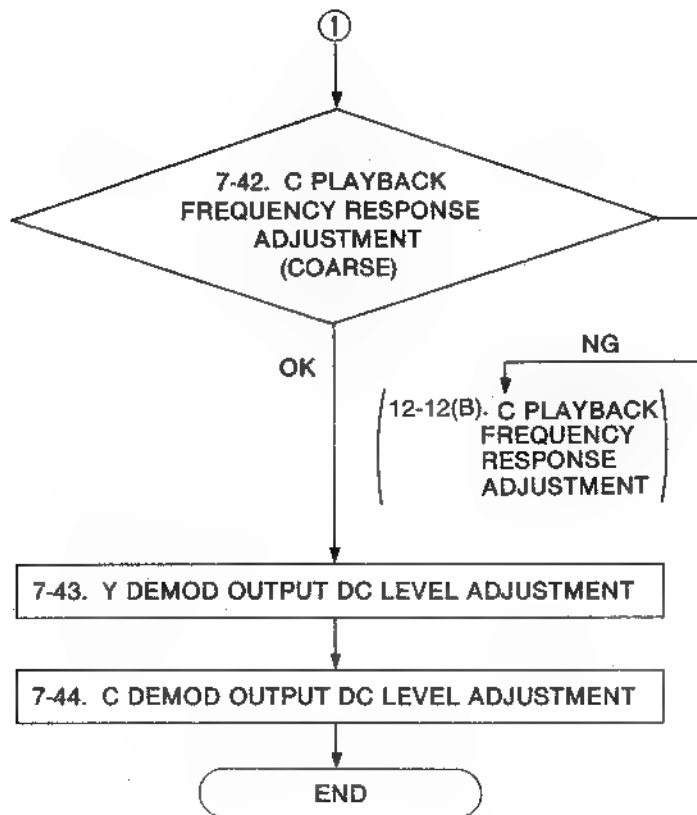




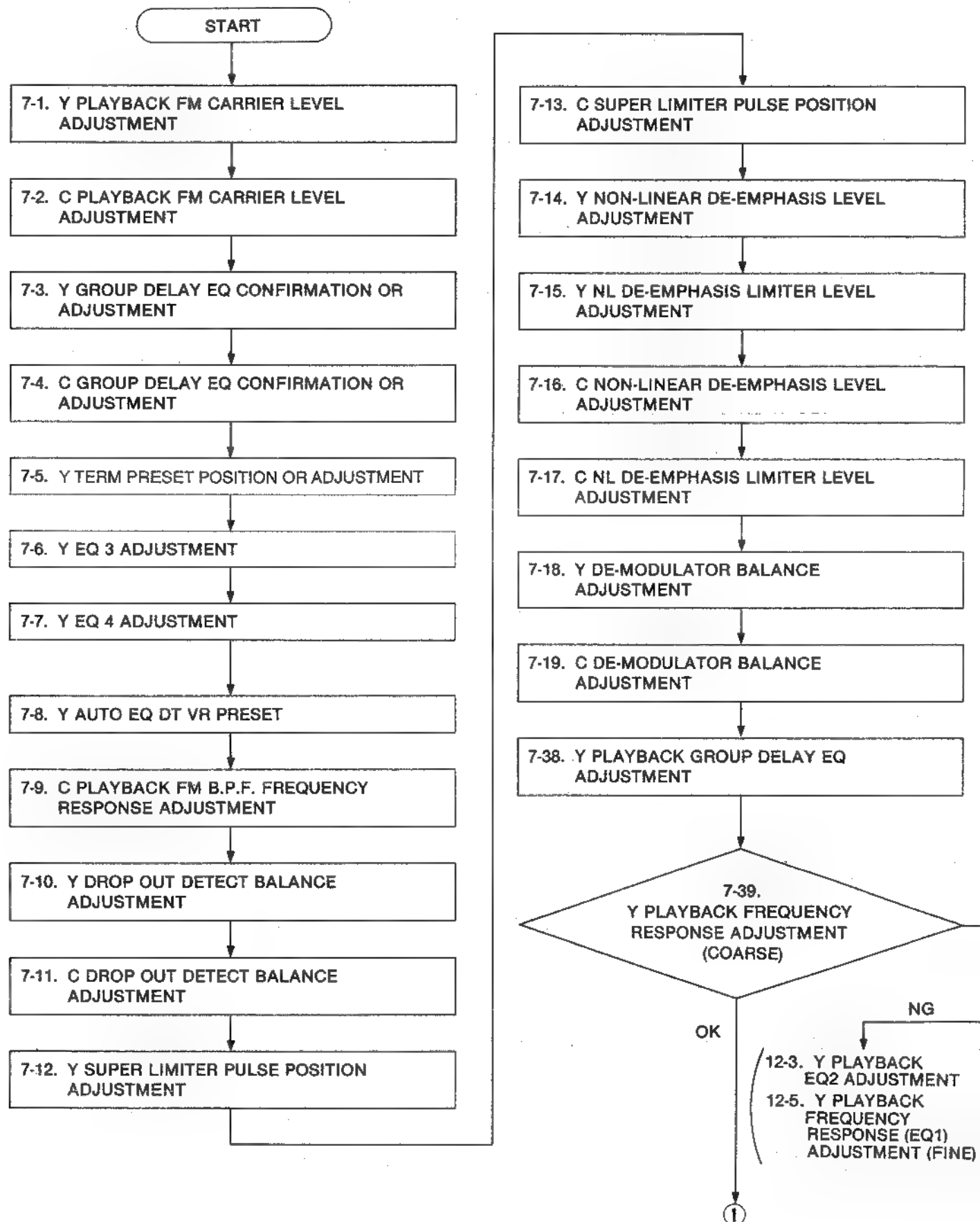
# MODULATION & DEMODULATION SECTION (1/2) FLOWCHART (W3) FOR AU-63H/AU-63

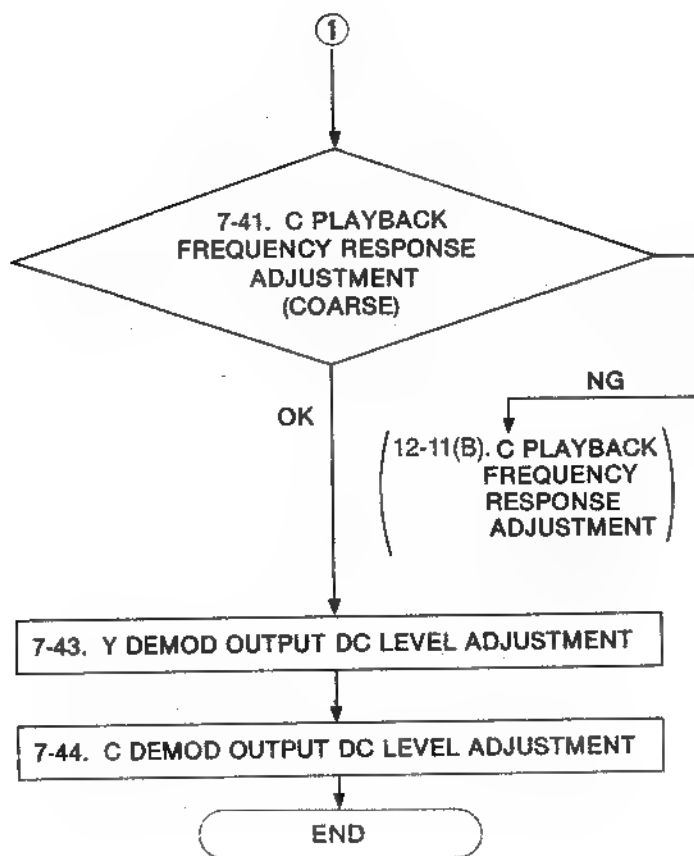






# MODULATION & DEMODULATION SECTION (1/2) (W3) FLOWCHART FOR AU-62H/AU-62

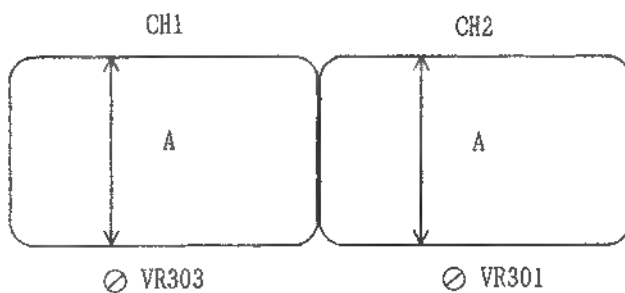




## 7. MODULATION & DEMODULATION (W3) BOARD (1/2)

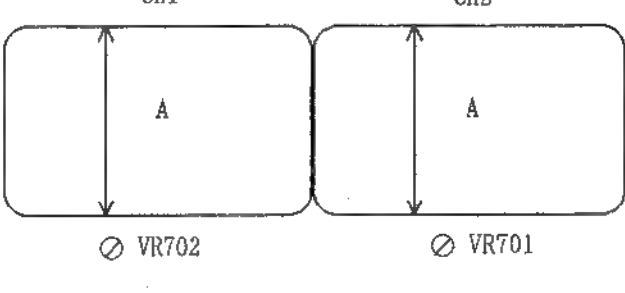
### 7-1. Y PLAYBACK FM CARRIER LEVEL ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|--|------|---------------------------------|---|--------------|--|
| TP301<br>F29-AB<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | -----        | VR301<br><R/P (AT) CH2 LEV><br>VR303<br><R/P (AT) CH1 LEV> |
| 1. SCOPE CH1 : TP301<br>SCOPE CH2 : F29-AB EDGE CONNECTOR<br>(on W3) For Trigger<br><br>2. Adjust VR301 and VR303 so that the<br>signal level at TP301 is $400 \pm 50\text{mVp-p}$ . |      |                                 | TP301<br><br><br>$A = 400 \pm 50\text{mVp-p}$ |              |  |

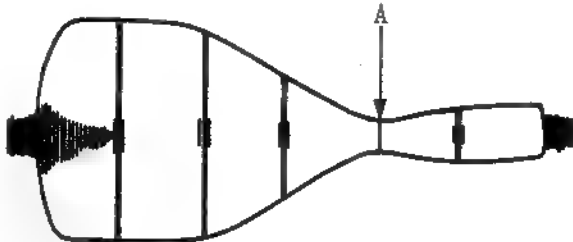
### 7-2. C PLAYBACK FM CARRIER LEVEL ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                       |
|--|------|---------------------------------|---|--------------|--|
| TP701<br>F33-AB<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | -----        | VR701<br>(R/P CH2 LEV)<br>VR702<br>(R/P CH1 LEV) |
| 1. SCOPE CH1 : TP701<br>SCOPE CH2 : F33-AB EDGE CONNECTOR<br>(on W3) For Trigger<br><br>2. Adjust VR701 and VR702 so that the<br>signal level at TP701 is $400 \pm 50\text{mVp-p}$ . |      |                                 | TP701<br><br><br>$A = 400 \pm 50\text{mVp-p}$ |              |  |

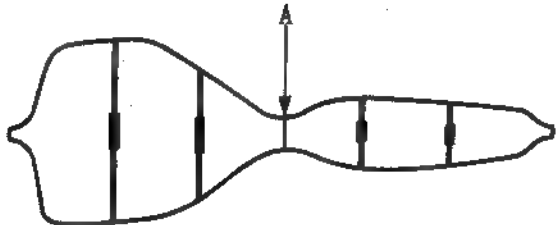
### 7-3. Y GROUP DELAY EQ CONFIRMATION OR ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                              | M.EQ.   | INPUT SIGNAL | ADJUSTMENT        |
|--|------|--|---|--------------|-------------------|
| TP302  | PLAY | ALIGNMENT<br>TAPE<br>12MHz<br>RF SWEEP | OSCILLOSCOPE  | -----        | VL301 (Y G-D, EQ) |
| Step 1.<br>MACHINE CONDITION   |      |  | TJ301 (on W3) : OPEN CONTACT  |              |                   |
| Step 2.<br><br>1. SCOPE : TP302<br><br>2. Adjust VL301 so that the trap frequency<br>(A) of line sweep becomes<br>7.7 ± 0.1MHz<br><br>3. TJ301 (on W3) : CLOSE CONTACT |      |  | TP302 ∅ VL301<br><br>A = 7.7 ± 0.1MHz |              |                   |

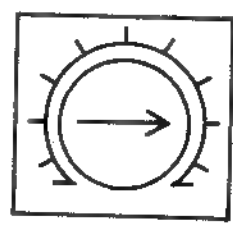
### 7-4. C GROUP DELAY EQ CONFIRMATION OR ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                              | M.EQ.   | INPUT SIGNAL | ADJUSTMENT         |
|--|------|--|---|--------------|--------------------|
| TP702  | PLAY | ALIGNMENT<br>TAPE<br>12MHz<br>RF SWEEP | OSCILLOSCOPE  | -----        | VL701 (C G, D, EQ) |
| Step 1.<br>MACHINE CONDITION   |      |  | TJ701 (on W3) : OPEN CONTACT  |              |                    |
| Step 2.<br><br>1. SCOPE : TP702<br><br>2. Adjust VL701 so that the trap frequency<br>(A) of line sweep becomes 6.0 ± 0.1MHz.<br><br>3. TJ701 (on W3) : CLOSE CONTACT |      |  | TP703 ∅ VL702<br><br>A = 6.0 ± 0.1MHz |              |                    |

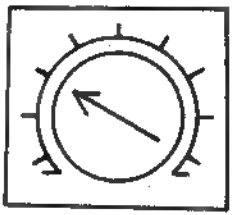
### 7-5. Y TERM PRESET POSITION OR ADJUSTMENT ( W3 MOD & DEMOD )

Note : Before performing this adjustment STEP, you need to "PRE-SET" the following pots : VR309, VR311, VR310.

|   |  |
|---|--|
| <p>Step 1.</p> <p>1. Preset VR309 (TERM) to the 3 o'clock position.</p> | <p>⊙ VR309</p>  |
|---|--|

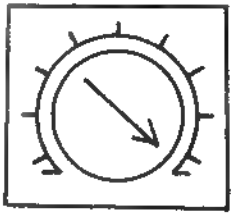
### 7-6. Y EQ 3 ADJUSTMENT

( W3 MOD & DEMOD )

|   |  |
|---|--|
| <p>Step 1.</p> <p>1. Preset VR311 (EQ3) to the 10 o'clock position.</p> | <p>⊙ VR311</p>  |
|---|--|

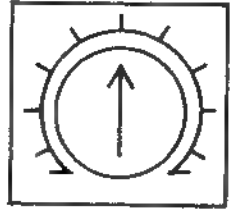
### 7-7. Y EQ 4 ADJUSTMENT

( W3 MOD & DEMOD )

|  |  |
|--|--|
| <p>Step 1.</p> <p>1. Turn VR310 fully clockwise.</p> | <p>⊙ VR310</p>  |
|--|--|

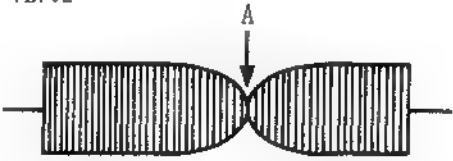
### 7-8. Y AUTO EQ DT VR PRESET

( W3 MOD & DEMOD )

|  |  |
|--|--|
| <p>Step 1.</p> <p>1. Preset VR 328 (A EQ DT V) to the centre position.</p> | <p>⊙ VR328</p>  |
|--|--|


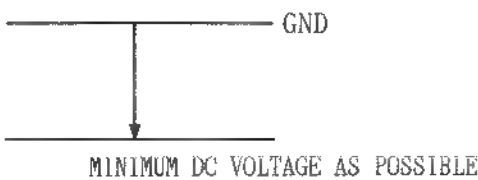

# 7-9. C PLAYBACK FM B.P.F. FREQUENCY RESPONSE ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                              | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                   |
|--|------|--|---|--------------|--|
| TP703  | PLAY | ALIGNMENT<br>TAPE<br>12MHz<br>RF SWEEP | OSCILLOSCOPE  | -----        | VL702 (C BPF F.R.)<br>SW704 (C SUPER LIM SW) |
| Step 1.<br>MACHINE CONDITION   |      |  | SW704 (on W3) : OFF<br>TJ702 (on W3) : OPEN CONTACT   |              |  |
| Step 2.<br>1. SCOPE : TP703<br>2. Adjust VL702 so that the trap frequency<br>(A) of line sweep becomes<br>8.0 ± 0.1MHz |      |  | TP703    ⊗    VL702<br><br>A = 8.0 ± 0.1MHz |              |  |
| Step 3.<br>RESET MACHINE CONDITION   |      |  | SW704 (on W3) : ON<br>TJ702 (on W3)<br>CLOSE CONTACT  |              |  |

# 7-10. Y DROP OUT DETECT BALANCE ADJUSTMENT


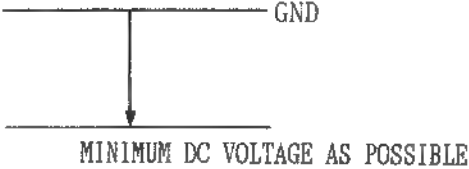

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|--|------|---------------------------------|---|--------------|--|
| TP307<br>F29-AB<br>(Trigger)<br>TP308  | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | -----        | VR317 (LIM IN RF LEV.)<br>VR321 (Y DO BAL)<br>SW304 (Y SUPER LIM SW) |
| Step 1.<br>MACHINE CONDITION   |      |                                 | SW304 (on W3) : OFF   |              |  |
| Step 2.<br><br>1. SCOPE CH1 : TP307<br>SCOPE CH2 : F29-AB TERMINAL<br>(Trigger)<br>2. Turn VR317 fully clockwise until the<br>RF level becomes 0 (zero). |      |                                 | TP307 $\odot$ VR317<br>   |              |  |
| Step 3.<br><br>1. SCOPE : TP308<br>2. SCOPE MODE : DC MODE<br>3. Adjust VR321 for minimum DC Level.  |      |                                 |                          |              |  |
| Step 4.<br><br>1. SCOPE CH1 : TP307<br>SCOPE CH2 : F29-AB TERMINAL<br>(Trigger)<br>2. Adjust VR317 so that the RF level<br>becomes 300mVp-p.             |      |                                 | TP307 $\odot$ VR317<br> |              |  |
| Step 5.<br><br>1. SW304 : ON (SUPER LIMITER ON)  |      |                                 |   |              |  |



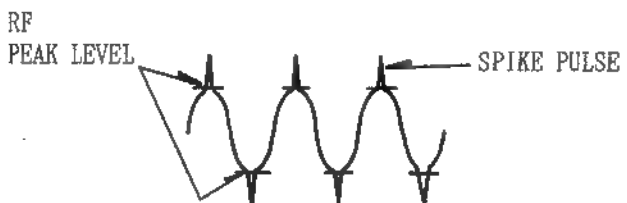
# 7-11. C DROP OUT DETECT BALANCE ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                 |
|--|------|---------------------------------|---|--------------|--|
| TP703<br>TP704   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | -----        | VR714 (LIM IN RF LEV.)<br>VR718 (Y DO BAL) |
| Step 1.<br>MACHINE CONDITION   |      |                                 | SW704 (on W3) : OFF   |              |  |
| Step 2.<br><br>1. SCOPE CH1 : TP703<br>SCOPE CH2 : F33-AB TERMINAL<br>(Trigger)<br>2. Turn VR714 fully clockwise until the<br>RF level becomes 0 (zero). |      |                                 | TP703 ⊗ VR714<br>   |              |  |
| Step 3.<br><br>1. SCOPE : TP704<br>2. SCOPE MODE : DC MODE<br>3. Adjust VR718 for minimum DC Level.  |      |                                 |                    |              |  |
| Step 4.<br><br>1. SCOPE CH1 : TP703<br>SCOPE CH2 : F33-AB TERMINAL<br>(Trigger)<br>2. Adjust VR714 so that the RF level<br>becomes 300mVp-p.             |      |                                 | TP703 ⊗ VR714<br> |              |  |
| Step 5.<br><br>1. SW704 : OFF  |      |                                 | At this time, SW704 isn't used, leave it<br>in the OFF position.                                      |              |  |

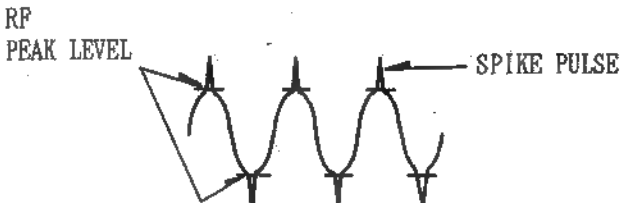
## 7-12. Y SUPER LIMITER PULSE POSITION ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT       |
|--|------|---------------------------------|--|--------------|------------------|
| TP307  | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE   | -----        | VC301 (Y P. POS) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Play back the colour bar portion of the Alignment Tape.</li> <li>2. SCOPE : TP307</li> <li>3. SCOPE SETTING : without 20MHz Filter</li> <li>4. SW304 : ON (Super Limiter function)</li> <li>5. Adjust VC301 so that the spike pulse is located on the RF peak position as shown in figure.</li> </ol> |      |                                 | <p>TP307 <math>\odot</math> VC301</p>  <p>SCOPE TIME/DIV : 5 nsec (Max.)</p> |              |                  |

## 7-13. C SUPER LIMITER PULSE POSITION ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT       |
|--|------|---------------------------------|--|--------------|------------------|
| TP703  | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE   | -----        | VC701 (C P. POS) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Play back the colour bar portion of the Alignment Tape.</li> <li>2. SCOPE : TP703</li> <li>3. SCOPE SETTING : without 20MHz Filter</li> <li>4. SW704 : ON (Super Limiter function)</li> <li>5. Adjust VC701 so that the spike pulse is located on the RF peak position as shown in figure.</li> </ol> |      |                                 | <p>TP703 <math>\odot</math> VC701</p>  <p>SCOPE TIME/DIV : 5 nsec (Max.)</p> |              |                  |

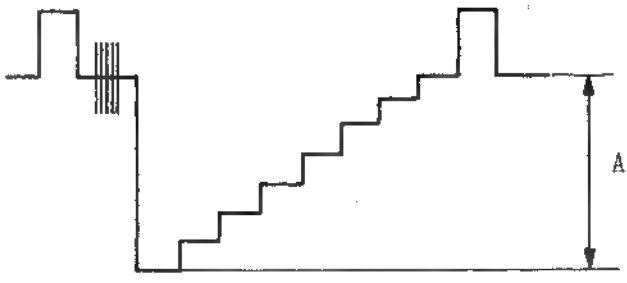
# 7-14. Y NON-LINEAR DE-EMPHASIS LEVEL ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT | MODE | TAPE USED                       | M.EQ.                     | INPUT SIGNAL | ADJUSTMENT        |
|------------|------|---------------------------------|---------------------------|--------------|-------------------|
| TP309      | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE<br>(DC mode) | -----        | VR322<br>(NL LEV) |

SCOPE SETTING : DC mode

TP309  $\odot$  VR322



$A = 1.1 \pm 0.02V_{p-p}$

# 7-15. Y NL DE-EMPHASIS LIMITER LEVEL ADJUSTMENT (FOR AU-62H/63H and AU-62/63)

( W3 MOD & DEMOD )

| TEST POINT | MODE | TAPE USED                         | M.EQ.        | INPUT SIGNAL | ADJUSTMENT                                     |
|------------|------|-----------------------------------|--------------|--------------|--|
| TP310      | PLAY | ALIGNMENT<br>TAPE<br>100% BOW TIE | OSCILLOSCOPE | -----        | VR323<br>(NL LIM BAL)<br>VR324<br>(NL LIM LEV) |

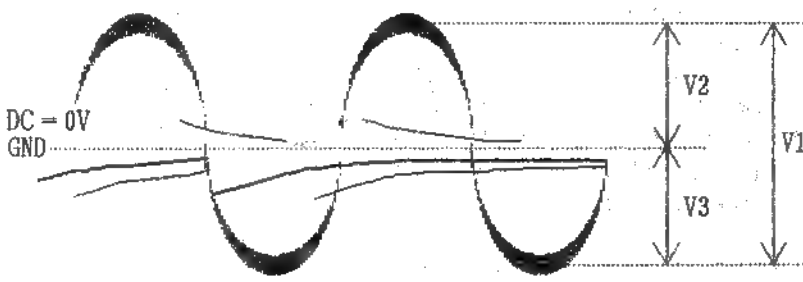
1. Playback 100% BOW TIE signal and expand it.

2. Adjust VR324 so that V1 becomes  $360 \pm 5mV_{p-p}$ .

3. SCOPE SETTING : DC Mode

4. Adjust VR323 so that the level V2 equals the level V3 (50 : 50%).

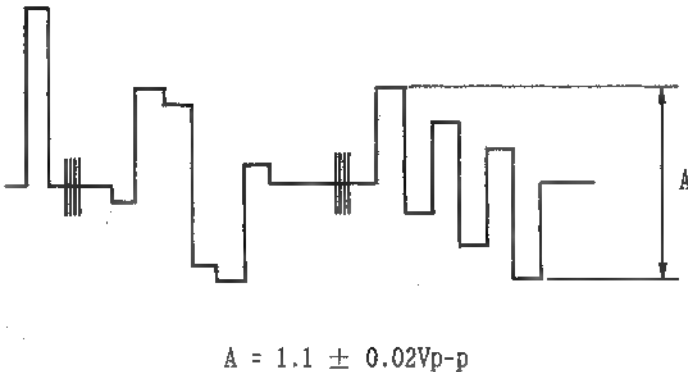
TP310



$\odot$  VR324 :  $V1 = 360 \pm 5mV_{p-p}$   
 $\odot$  VR323 :  $V2 = V3$

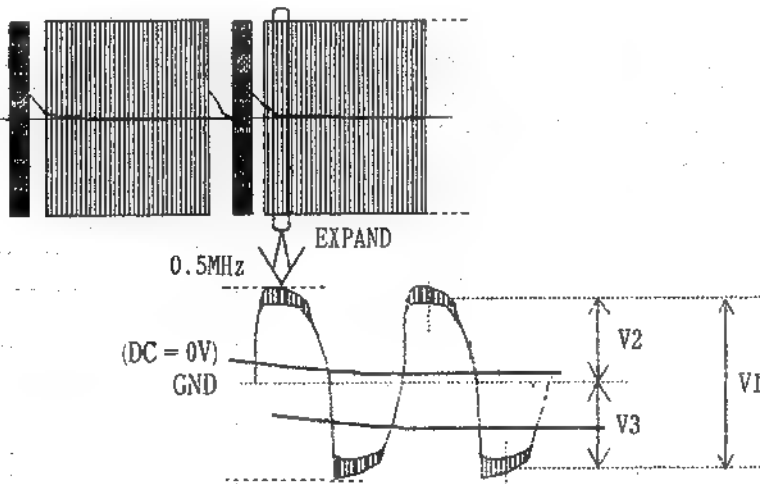
# 7-16. C NON-LINEAR DE-EMPHASIS LEVEL ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT        |
|---|------|---------------------------------|--|--------------|-------------------|
| TP706   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE   | -----        | VR719<br>(NL LEV) |
| 1. Adjust VR719 so that the Pr signal level at TP706 is $1.1 \pm 0.02V_{p-p}$ . |      |                                 |  <p><math>A = 1.1 \pm 0.02V_{p-p}</math></p> |              |                   |



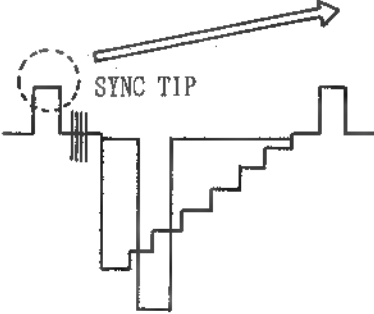
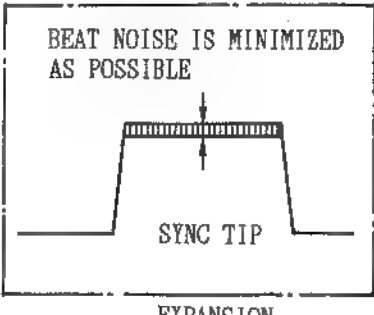
# 7-17. C NL DE-EMPHASIS LIMITER LEVEL ADJUSTMENT (FOR AU-62H/63H and AU-62/63)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                            | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                  |
|---|------|--------------------------------------|--|--------------|---|
| TP707   | PLAY | ALIGNMENT<br>TAPE<br>100%<br>BOW TIE | OSCILLOSCOPE   | -----        | VR720<br>(LIM BAL)<br>VR721<br>(NL LIM LEV) |
| 1. Play back the 100% BOW TIE portion and expand Pb portion.<br><br>2. Adjust VR721 so that the level V1 becomes $400mV \pm 5mV_{p-p}$ .<br><br>3. SCOPE SETTING : DC mode.<br><br>4. Adjust VR720 so that the level V2 equals the level V3 (50 : 50%). |      |                                      | <p>TP707 <math>\odot</math> VR720, VR721</p>  <p><math>\odot</math> VR721 : <math>V1 = 400 \pm 5mV_{p-p}</math><br/> <math>\odot</math> VR720 : <math>V2 = V3</math></p> |              |   |



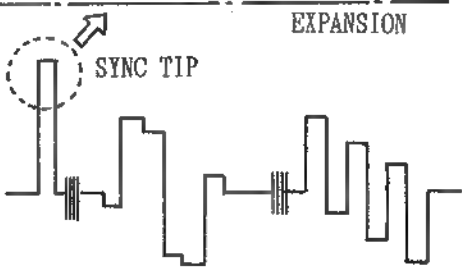
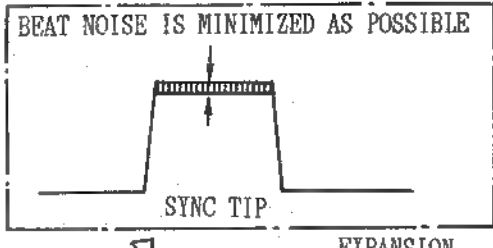
# 7-18. Y DE-MODULATOR BALANCE ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                           |
|---|------|---------------------------------|---|--------------|--------------------------------------|
| TP309   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | -----        | VR318 (LIM BAL)<br>VR319 (DEMOM BAL) |
| Step 1.<br><br>1. SCOPE : TP309<br>2. Adjust VR318 and VR319 mutually so that the beat noise at sync tip portion is nullified as shown in figure. |      |                                 | <div> <div> TP309     VR318<br/>  VR319 </div> <div>  </div> <div> <div> BEAT NOISE IS MINIMIZED<br/>AS POSSIBLE </div>  </div> </div> |              |                                      |

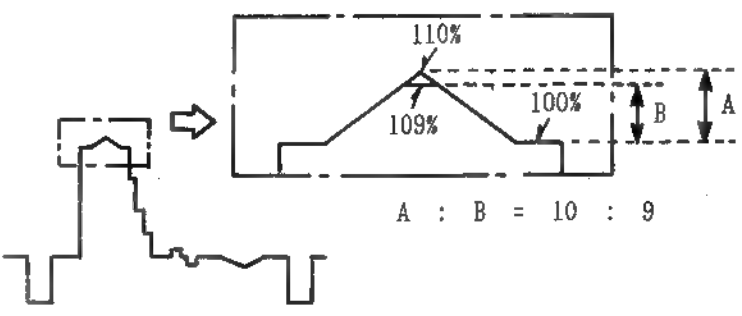
# 7-19. C DE-MODULATOR BALANCE ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                           |
|---|------|---------------------------------|--|--------------|--------------------------------------|
| TP706   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE   | -----        | VR715 (LIM BAL)<br>VR716 (DEMOM BAL) |
| Step 1.<br><br>1. SCOPE : TP706<br>2. Adjust VR715 and VR716 mutually so that the beat noise at sync tip portion is nullified as shown in figure. |      |                                 | <div> <div> TP706     VR715<br/>  VR716 </div> <div>  </div> <div> <div> BEAT NOISE IS MINIMIZED<br/>AS POSSIBLE </div>  </div> </div> |              |                                      |

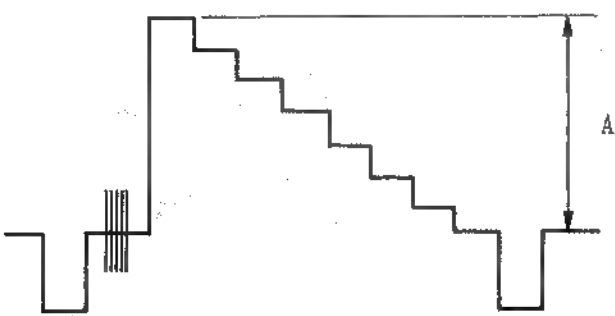
# 7-20. VIDEO CLIP ADJUSTMENT (FOR AU-65H / AU-65)

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL   | ADJUSTMENT   |
|--|----------------|-----------|---|--|--------------|
| TP1  | E-E<br>(EJECT) | -----     | WFM<br>OR<br>OSCILLOSCOPE   | COMPONENT<br>COLOUR BAR<br>LEVEL<br>REFERENCE SIGNAL | VR3 (Y CLIP) |
| Step 1.<br><br>1. SCOPE : TP1<br><br>2. Adjust VR3 so that level B as shown in figure.<br><br>Note:<br>Measure from PEDESTAL LEVEL TO PEAK<br>WHITE LEVEL. |                |           | TP1 $\odot$ VR3<br><br> |  |              |

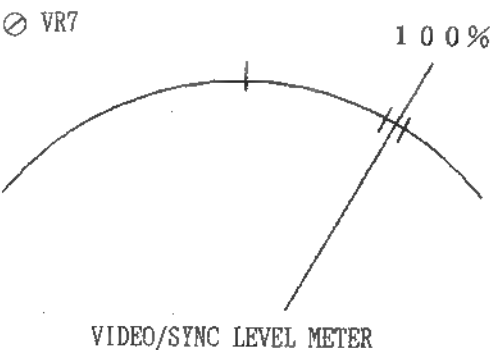
# 7-21. Y NON-LINEAR PRE-EMPHASIS LEVEL ADJUSTMENT (FOR AU-65H / AU-65)

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.        | INPUT SIGNAL           | ADJUSTMENT      |
|--|----------------|-----------|--------------|------------------------|-----------------|
| TP 4   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE | COMPONENT<br>COLOR BAR | VR1 (Y NLE LEV) |
| TP4 $\odot$ VR1<br><br><br><br>$A = 1.1 \pm 0.02V_{p-p}$ |                |           |              |                        |                 |

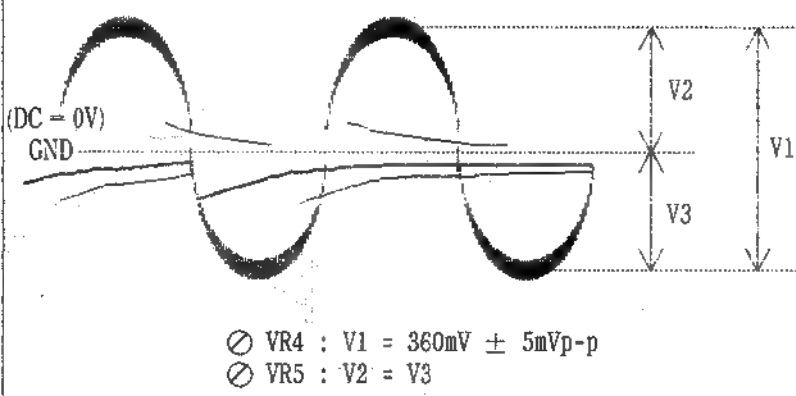
## 7-22. VIDEO/SYNC METER ADJUSTMENT (FOR AU-65H / AU-65)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT     |
|---|------|---------------------------------|--|--------------|----------------|
| Video Level Meter<br>(on Front Panel)   | PLAY | COMPONENT<br>100%<br>COLOUR BAR | -----  | -----        | VR7 (V/S LEV.) |
| Step 1.<br><br>1. SW1 (on W3) : VIDEO POSITION<br>2. Adjust VR7 so that the meter indicates 100% as shown in figure.<br>3. SW1 (on W3) : SYNC POSITION<br>4. Confirm that the meter indicates $100 \pm 10\%$ .<br>5. SW1 (on W3) : VIDEO POSITION |      |                                 |  |              |                |

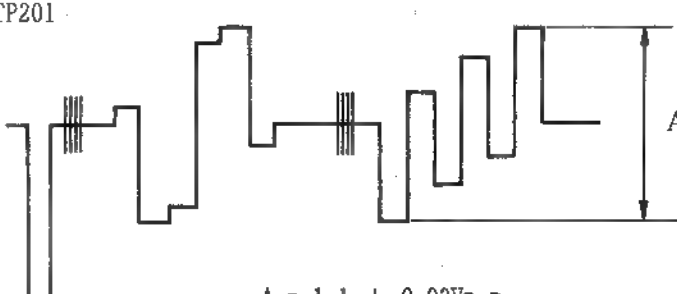
## 7-23. Y NL EMPHASIS LIMITER LEVEL ADJUSTMENT (FOR AU-65H / AU-65)

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL              | ADJUSTMENT                              |
|--|----------------|-----------|--|---------------------------|---|
| TP3  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100% BOW TIE | VR5<br>(LIM BAL)<br>VR4<br>(NL LIM LEV) |
| Step 1.<br><br>1. SCOPE : TP3<br>2. Adjust VR4 so that the level V1 becomes $360\text{mV} \pm 5\text{mVp-p}$ .<br>3. SCOPE SETTING : DC mode<br>4. Adjust VR5 so that the level V2 equals the level V3 (50 - 50%). |                |           |  |                           |   |

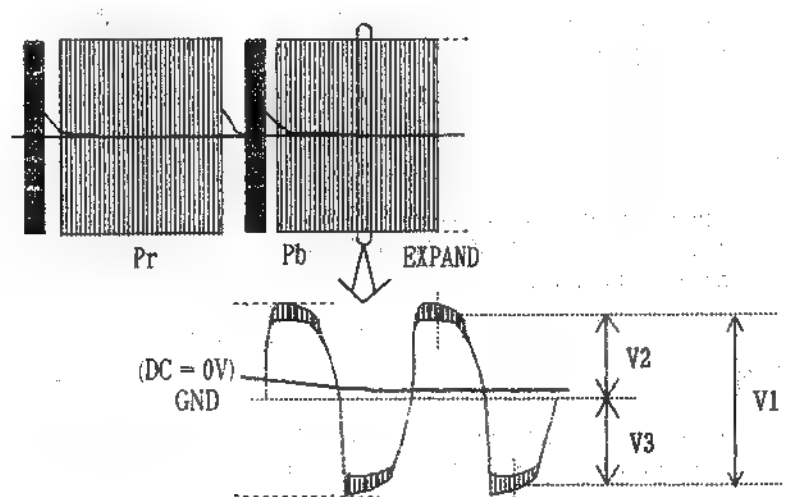
**7-24. C NON-LINEAR PRE-EMPHASIS LEVEL  
ADJUSTMENT (FOR AU-65H / AU-65)**

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.        | INPUT SIGNAL                 | ADJUSTMENT       |
|---|----------------|-----------|--------------|------------------------------|------------------|
| TP202   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE | COMPONENT<br>100% COLOUR BAR | VR201 (C NL LEV) |
| <p>TP201</p>  <p><math>A = 1.1 \pm 0.02V_{p-p}</math></p> |                |           |              |                              |                  |

**7-25. C NON-LINEAR LIMITER ADJUSTMENT  
(FOR AU-65H / AU-65)**

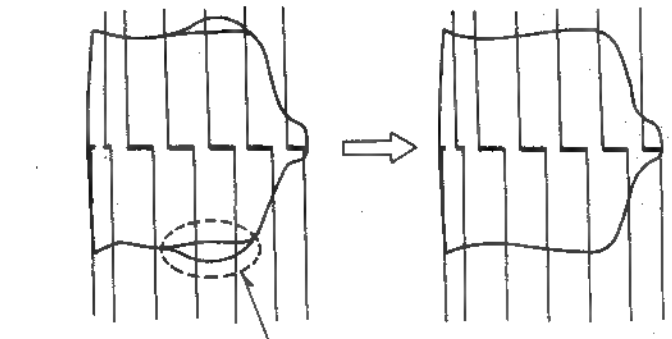
( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL              | ADJUSTMENT                                  |
|--|----------------|-----------|--|---------------------------|---|
| TP203  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100% BOW TIE | VR202<br>(LIM BAL)<br>VR203<br>(NL LIM LEV) |
| <ol style="list-style-type: none"> <li>SCOPE : TP203</li> <li>Observe the CTOM signal and expand it.</li> <li>Adjust VR203 so that the level V1 becomes <math>400mV \pm 5mV_{p-p}</math>.</li> <li>SCOPE SETTING : DC mode</li> <li>Adjust VR202 so that the level V2 equals the level V3 (50 : 50%).</li> </ol> |                |           | <p>TP203</p>  <p>Pr Pb EXPAND</p> <p>(DC = 0V)<br/>GND</p> <p>V2<br/>V3<br/>V1</p> <p>⊙ VR203 : <math>V1 = 400mV \pm 5mV_{p-p}</math><br/>⊙ VR202 : <math>V2 = V3</math></p> |                           |   |



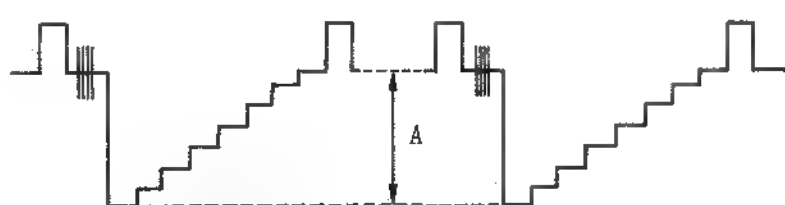
**7-28(B). Y MODULATOR BALANCE ADJUSTMENT  
(BY USING OSCILLOSCOPE)  
(FOR AU-65H / AU-65)**

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                 | ADJUSTMENT       |
|--|----------------|-----------|---|------------------------------|------------------|
| COMPONENT<br>Y OUT   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>60%<br>H. SWEEP | VR11 (Y MOD BAL) |
| <p>Step 1.</p> <p>1. SCOPE : COMPONENT Y OUT</p> <p>2. Adjust VR11 so the "A" portion High Frequency moire is minimized.</p> |                |           | <p>COMPONENT Y OUT</p>  <p>NO GOOD      "A" Portion      GOOD</p> |                              |                  |

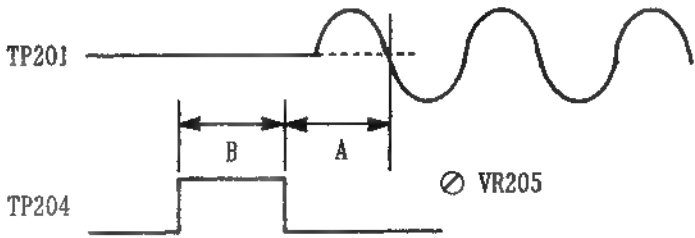
**7-29. Y DEVIATION CONFIRMATION  
(FOR AU-65H / AU-65)**

( W3 MOD & DEMOD )

| TEST POINT  | MODE              | TAPE USED                       | M.EQ.   | INPUT SIGNAL                    | ADJUSTMENT  |
|---|-------------------|---------------------------------|---|---------------------------------|-------------|
| TP309   | PLAY<br>↓<br>STOP | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOUR BAR | VR6 (Y DEV) |
| <p>Step 1.</p> <p>1. SCOPE : TP309</p> <p>2. Play back the colour bar portion of the Alignment Tape.</p> <p>3. Measure the level A.</p> <p>4. Place the unit in the E-E mode.(STOP)</p> <p>5. Compare the level of Alignment Tape Play back signal and the level of E-E colour bar.</p> <p>6. If it is not same level *, adjust VR6 so that the E-E output level becomes same level of Alignment Tape Play back colour bar level.</p> <p><b>*Note:</b><br/>Make sure the Y WHITE &amp; DARK CLIP are readjusted (7-27).</p> |                   |                                 | <p>TP309</p>  <p>ALIGNMENT TAPE PLAYBACK      (E-E)</p> <p>ALIGNMENT TAPE PLAYBACK SIGNAL LEVEL (A)<br/>= E-E OUTPUT SIGNAL LEVEL (B)</p> |                                 |             |

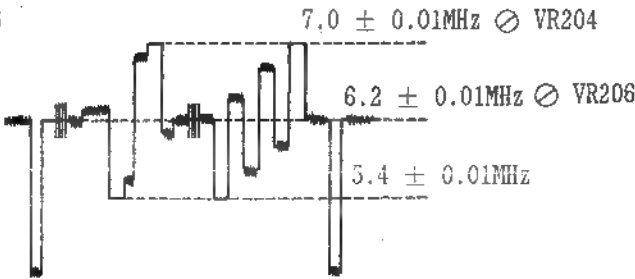
# 7-30. C CLAMP PULSE POSITION ADJUSTMENT (FOR AU-65H / AU-65)

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                    | ADJUSTMENT          |
|---|----------------|-----------|---|---------------------------------|---------------------|
| TP201<br>TP204  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOUR BAR | VR205 (C CLAMP POS) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   |                |           | <p>1. INPUT SELECT : COMPONENT<br/>(on Pull Out Drawer)</p> <p>2. YC/COMPONENT SELECT : COMPONENT<br/>(on Front Sub Panel)</p> <p>3. SW201 : NOT TEST POSITION</p>                                    |                                 |                     |
| <p>Step 2.</p> <p>1. SCOPE CH1 : TP201<br/>SCOPE CH2 : TP204</p> <p>2. Adjust VR205 so that the period (A) is<br/><math>0.7 \pm 0.1 \mu\text{sec.}</math></p> <p>3. Confirm that the pulse width (B) is<br/><math>1.2 \pm 0.2 \mu\text{sec.}</math><br/>colour bar level (A).</p> |                |           |  <p><math>A = 0.7 \pm 0.1 \mu\text{S (ADJ)}</math><br/><math>B = 1.2 \pm 0.2 \mu\text{S (CONFIRMATION)}</math></p> |                                 |                     |

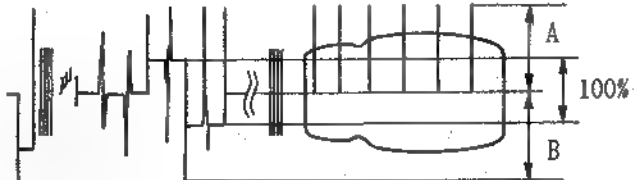
# 7-31. C FM DEVIATION ADJUSTMENT (FOR AU-65H / AU-65)

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL         | ADJUSTMENT  |
|---|----------------|-----------|---|----------------------|---|
| TP711<br>TP706  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | Y/CTCM<br>COLOUR BAR | VR207 (DARK CLIP)<br>VR208 (WHITE CLIP)<br>VR204 (C DEV.)<br>VR206 (C BLK FREQ) |
| Step 1.<br>MACHINE CONDITION  |                |           | VR207 : Fully Counterclockwise (To release clip)<br>VR208 : Fully Counterclockwise (To release clip)            |                      |   |
| Step 2.<br><br>1. Sinewave Signal to TP711.<br>2. Set Sinewave Generator Output<br>Frequency Setting To :   |                |           | 6.2 MHz $\pm$ 0.01 MHz (0.2 ~ 0.4 Vp-p)   |                      |   |
| Step 3.<br><br>1. Connect scope to TP706<br>2. Adjust VR206 so that frequency beat<br>noise is nullified at blanking portion<br>as shown in figure.   |                |           | <div>TP706</div> <div></div> |                      |   |
| Step 4.<br><br>Change Sinewave Generator Output<br>Frequency Setting To :   |                |           | 7.0MHz $\pm$ 0.01MHz (0.2 ~ 0.4Vp-p)  |                      |   |
| Step 5.<br><br>1. Adjust VR204 so that frequency beat<br>noise is nullified at red portion of Pr<br>signal as shown in figure 1.  |                |           |   |                      |   |
| Step 6.<br><br>Then change the frequency of the sinewave<br>generator to 4.8MHz ( $\pm$ 0.01KHz) and<br>confirm that the beat does not occur at<br>cyan portion of Pr signal.<br>If it is not, repeat from steps 5 and 6. |                |           |   |                      |   |
| Note:<br>After this adjustment, the C WHITE/DARK<br>CLIP adjustments are required.  |                |           | Go to SECTION 7-32  |                      |   |

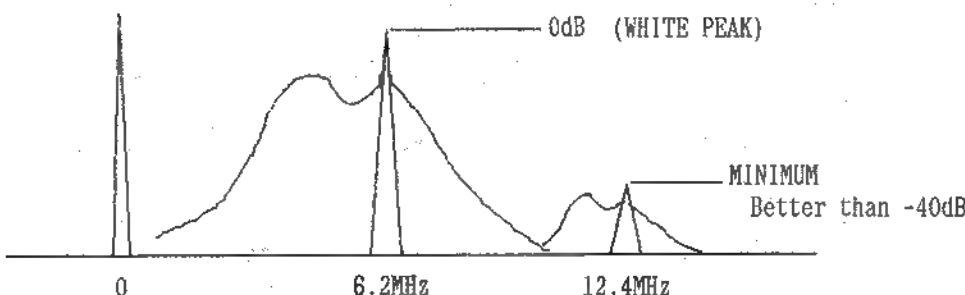
# 7-32. C WHITE & DARK CLIP ADJUSTMENT (FOR AU-65H / AU-65)

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                     | ADJUSTMENT                         |
|--|----------------|-----------|--|----------------------------------|------------------------------------|
| TP205  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | PULSE & BAR<br>3T<br>60% H SWEEP | VR208 ( + CLIP)<br>VR207 ( - CLIP) |
| Step 1.<br><br>1. SCOPE : TP205<br>2. Adjust VR208 so that the A portion (top of sweep marker) $200 \pm 5\%$ as shown in figure.<br>3. Adjust VR207 so that the B portion is $200\% \pm 5\%$ as shown in figure. |                |           |  <p> <math>A = 200\% \pm 5\%</math> (VR208)<br/> <math>B = 200\% \pm 5\%</math> (VR207)         </p> |                                  |                                    |

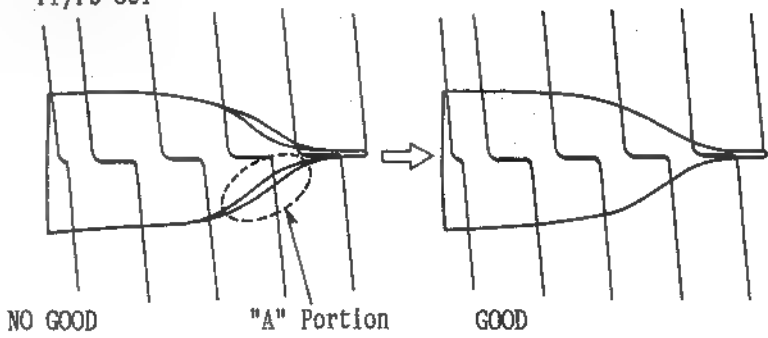
# 7-33(A) . C MODULATOR BALANCE ADJUSTMENT (BY USING SPECTRAM ANALYZER) (FOR AU-65H / AU-65)

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.             | INPUT SIGNAL              | ADJUSTMENT        |
|--|----------------|-----------|-------------------|---------------------------|-------------------|
| TP207  | E-E<br>(EJECT) | -----     | SPECTRUM ANALYZER | COMPONENT<br>50%<br>WHITE | VR209 (C MOD BAL) |
| 1. Adjust VR209 so that the second harmonic (12.4 MHz) carrier level is minimized<br>(Better than -40dB)   |                |           |                   |                           |                   |
|  <p> <math>\odot</math> VR209 : 12.4MHz...MINIMUM         </p> |                |           |                   |                           |                   |

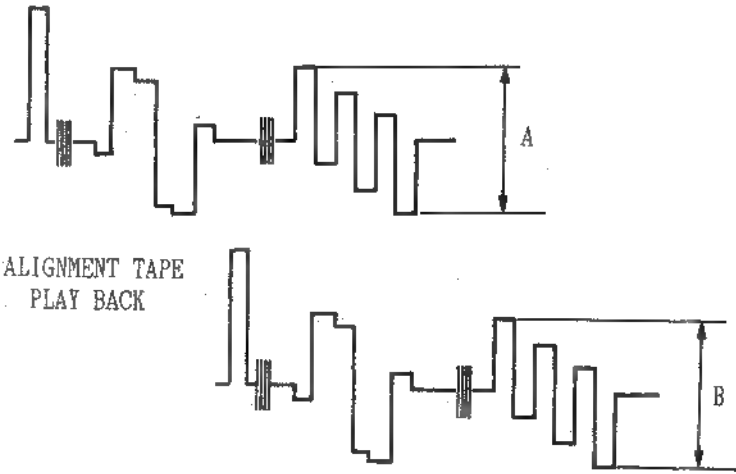
**7-33(B) . C MODULATOR BALANCE ADJUSTMENT**  
**(BY USING OSCILLOSCOPE)**  
**(FOR AU-65H / AU-65)**

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                 | ADJUSTMENT        |
|--|----------------|-----------|--|------------------------------|-------------------|
| COMPONENT<br>Pr/Pb<br>OUT  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>60%<br>H. SWEEP | VR209 (C MOD BAL) |
| Step 1.<br><br>1. SCOPE : COMPONENT Pr/Pb OUT<br><br>2. Adjust VR209 so the "A" portion High Frequency moire is minimized. |                |           | COMPONENT<br>Pr/Pb OUT<br><br><br>NO GOOD                      "A" Portion                      GOOD |                              |                   |

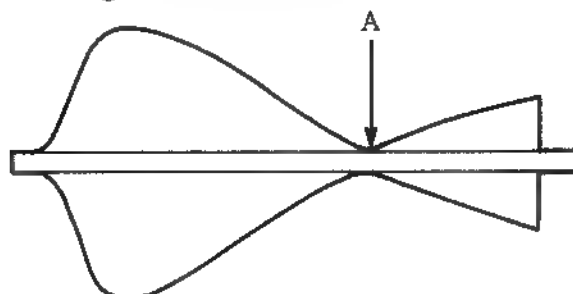
**7-34. C DEVIATION CONFIRMATION**  
**(FOR AU-65H / AU-65)**

( W3 MOD & DEMOD )

| TEST POINT  | MODE              | TAPE USED                       | M.EQ.   | INPUT SIGNAL                    | ADJUSTMENT    |
|---|-------------------|---------------------------------|---|---------------------------------|---------------|
| TP706   | PLAY<br>↓<br>STOP | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOUR BAR | VR204 (C DEV) |
| Step 1.<br><br>1. SCOPE : TP706<br>2. Play back the 100% colour bar portion of the Alignment Tape.<br>3. Measure the level A.<br>4. Place the unit in the E-E mode (STOP).<br>5. Compare the level A of the Alignment Tape play back signal and the level B of E-E colour bar.<br>6. If it is not same level *, adjust VR204 so that the E-E output level(B) becomes same level of the Alignment Tape Play back colour bar level (A).<br><br>*Note:<br>Make sure the C WHITE & DARK CLIP are adjusted (7-32). |                   |                                 | TP706<br><br>ALIGNMENT TAPE<br>PLAY BACK<br><br>ALIGNMENT TAPE PLAYBACK SIGNAL LEVEL (A)<br>= E-E OUTPUT SIGNAL LEVEL (B) |                                 |               |

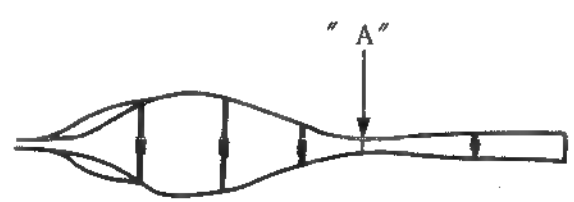
7-35(A) . C REC FM B.P.F. FREQUENCY RESPONSE  
ADJUSTMENT (FACTORY ADJ.)  
(FOR AU-65H / AU-65)

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL   | ADJUSTMENT             |
|--|----------------|-----------|---|--|------------------------|
| TP206<br>TPG202<br>TP207   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | LINE SWEEP<br>(0.1MHz ~ 12MHz)<br>Shibasoku<br>TO<br>TP206 (HOT)<br>TPG202 (GND) | VL201 (C REC BPF F.R.) |
| Step 1.<br>MACHINE CONDITION   |                |           | SW202 (on W3) : TEST POSITION<br>TJ201 (on W3) : OPEN CONTACT   |  |                        |
| Step 2.  |                |           | <p>TP207    ⊗ VL201</p>  <p>A = 9.0 ± 0.1MHz</p> |  |                        |
| <p>1. Supply a Line Sweep Signal (0.1MHz ~ 12MHz, 500mVp-p at TP207 to TP206 (HOT) and TPG202 (GND)).</p> <p>2. SCOPE CH1 : TP207<br/>SCOPE CH2 : Trigger from Generator</p> <p>3. Adjust VL201 so that the trap frequency (A) of line sweep becomes <math>9.0 \pm 0.1\text{MHz}</math>.</p> <p>4. SW202 (on W3) : NOT TEST POSITION<br/>TJ201 (on W3) : CLOSE CONTACT</p> |                |           |   |  |                        |

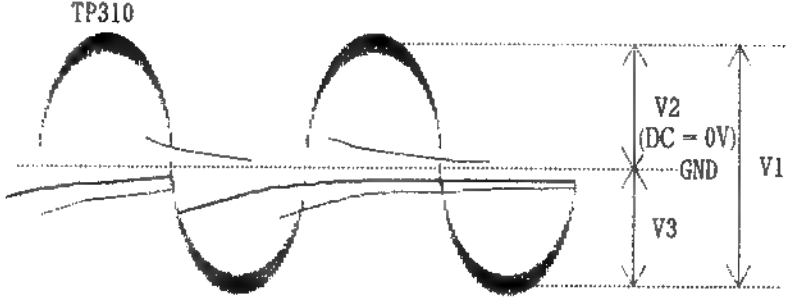
7-35(B) . C REC FM B.P.F. FREQUENCY RESPONSE  
ADJUSTMENT (FIELD ADJ.)  
(FOR AU-65H / AU-65)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                                     | M.EQ.  | INPUT SIGNAL | ADJUSTMENT             |
|--|------|---|--|--------------|------------------------|
| TP207<br>TP206<br>TP302  | PLAY | ALIGNMENT<br>TAPE<br>RF SWEEP<br>(0 ~ 12 MHz) | OSCILLOSCOPE   | -----        | VL201 (C REC BPF F.R.) |
| Step 1.<br>MACHINE CONDITION   |      |   | SW202 (on W3) : TEST POSITION<br>TJ201 (on W3) : OPEN CONTACT  |              |                        |
| Step 2.  |      |   | <p>TP207    ⊗ VL201</p>  <p>A = 9.0 ± 0.1MHz</p> |              |                        |
| <p>1. Connect a jumper wire between TP302 and TP206.</p> <p>2. Play back the RF SWEEP portion of the Alignment Tape.</p> <p>3. SCOPE : TP207</p> <p>4. Adjust VL201 so that the trap frequency (A) of line sweep becomes <math>9.0 \pm 0.1\text{MHz}</math>.</p> <p>5. SW202 (on W3) : NOT TEST POSITION<br/>TJ201 (on W3) : CLOSE CONTACT</p> |      |   |  |              |                        |

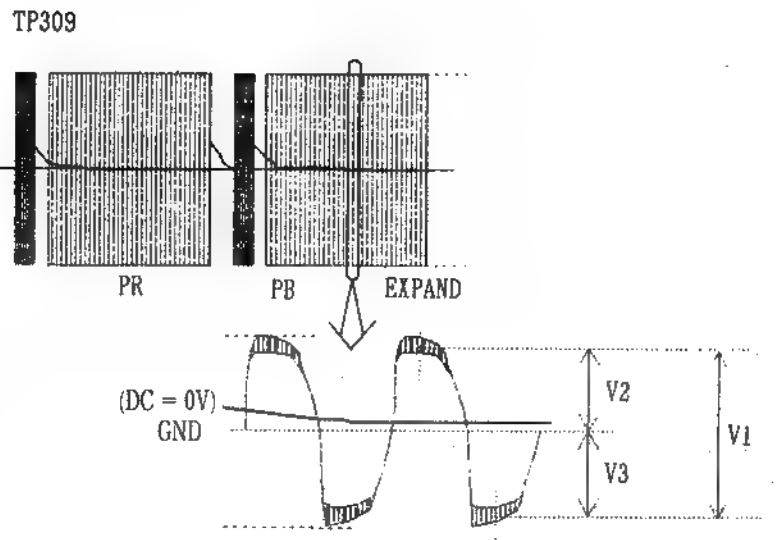
**7-36. Y NON LINEAR DE-EMPHASIS LIMITER LEVEL  
ADJUSTMENT (FOR AU-65H / AU-65)**

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                 | ADJUSTMENT                                     |
|---|----------------|-----------|---|------------------------------|--|
| TP310   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>100%<br>BOW TIE | VR323<br>(NL LIM BAL)<br>VR324<br>(NL LIM LEV) |
| 1. SCOPE : TP310<br><br>2. Adjust VR324 so that the level V1 becomes $360\text{mV} \pm 5\text{mVp-p}$ .<br><br>3. SCOPE SETTING : DC mode<br><br>4. Adjust VR323 so that the level V2 equals the level V3 (50 : 50%). |                |           |  <p>TP310</p> <p> <math>\bigcirc</math> VR324 : <math>V1 = 360\text{mV} \pm 5\text{mVp-p}</math><br/> <math>\bigcirc</math> VR323 : <math>V2 = V3</math> </p> |                              |  |

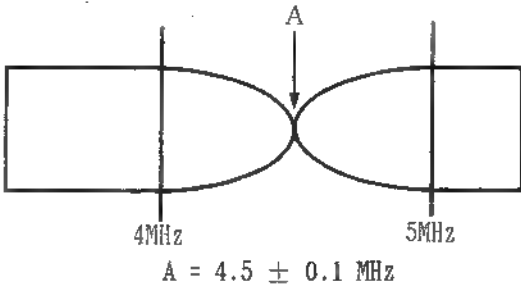
**7-37. C NON LINEAR DE-EMPHASIS LIMITER  
ADJUSTMENT (FOR AU-65H / AU-65)**

( W3 MOD & DEMOD )

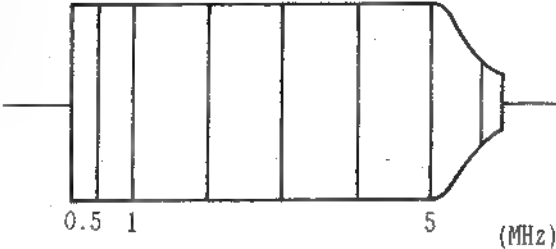
| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                 | ADJUSTMENT                                  |
|--|----------------|-----------|---|------------------------------|---|
| TP707  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>100%<br>BOW TIE | VR720<br>(LIM BAL)<br>VR721<br>(NL LIM LEV) |
| 1. Observe the CTCM signal and expand it.<br><br>2. Adjust VR721 so that the level V1 becomes $400\text{mV} \pm 5\text{mVp-p}$ .<br><br>3. SCOPE SETTING : DC mode<br><br>4. Adjust VR720 so that the level V2 equals the level V3 (50 : 50%). |                |           |  <p>TP309</p> <p>PR PB EXPAND</p> <p> <math>\bigcirc</math> VR721 : <math>V1 = 400\text{mV} \pm 5\text{mVp-p}</math><br/> <math>\bigcirc</math> VR720 : <math>V2 = V3</math> </p> |                              |   |

# 7-38. Y PLAYBACK GROUP DELAY EQ ADJUSTMENT

( W3 MOD & DEMOD )

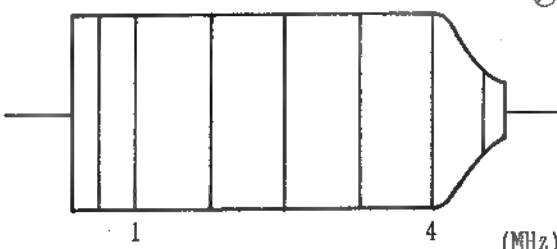
| TEST POINT  | MODE | TAPE USED          | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|---|------|--------------------|--|--------------|------------|
| TP309   | PLAY | ALIGNMENT<br>SWEEP | OSCILLOSCOPE   | -----        | VL302      |
| Step 1.<br>1. Open the jumper TJ302.  |      |                    | TJ302 → OPEN   |              |            |
| Step 2.<br>1. Adjust VL302 so that trap frequency<br>(A) is $4.5 \pm 0.1\text{MHz}$ . |      |                    |  |              |            |
| Step 3.<br>1. After this adjustment short the<br>jumper TJ302.                        |      |                    | TJ302 → SHORT  |              |            |

# 7-39. Y PLAYBACK FREQUENCY RESPONSE ADJUSTMENT (COARSE) (FOR AU-62H/65H and AU-62/65)

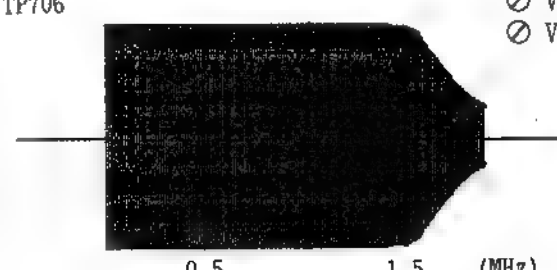
| TEST POINT   | MODE | TAPE USED                  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                             |
|--|------|----------------------------|--|--------------|--|
| TP309<br>F29-AB<br>EDGE CONNECTOR<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE   | -----        | VR315 R/P 1 (CH1)<br>VR316 R/P 2 (CH2) |
| 1. SCOPE CH1 : TP309<br>SCOPE CH2 : F29-AB EDGE CONNECTOR<br>(Trigger)<br>2. SCOPE SETTING : Trigger Slope (+)<br>3. Adjust VR315 so that the Y R/P CH1<br>frequency response is $95\% \pm 10\%$ at<br>5.0MHz portion.<br>4. SCOPE SETTING : Trigger Slope (-)<br>5. Adjust VR316 so that the Y R/P CH2<br>frequency response is $95\% \pm 10\%$ at<br>5.0MHz portion. |      |                            | TP309  <p>REF : 0.5MHz = 100%<br/>SPEC : 5MHz = <math>95\% \pm 10\%</math></p> |              |  |



**7-40. Y PLAYBACK FREQUENCY RESPONSE ADJUSTMENT**  
**(COARSE) (FOR AU-63H / AU-63)** ( W3 MOD & DEMOD )

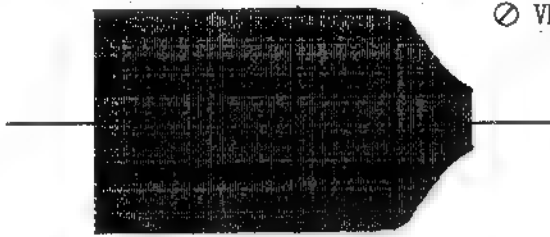
| TEST POINT  | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                           |
|---|------|----------------------------|---|--------------|--------------------------------------|
| TP309<br>F28-AB<br>EDGE CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE  | -----        | VR313 AT 1 (CH1)<br>VR314 AT 2 (CH2) |
| 1. SCOPE CH1 : TP309<br>SCOPE CH2 : F28-AB EDGE CONNECTOR (Trigger)<br>2. SCOPE SETTING : Trigger Slope (+)<br>3. Adjust VR313 so that the Y AT CH1 frequency response is $95\% \pm 10\%$ at 5.0MHz portion.<br>4. SCOPE SETTING : Trigger Slope (-)<br>5. Adjust VR314 so that the Y AT CH2 frequency response is $95\% \pm 10\%$ at 5.0MHz portion. |      |                            | <div style="display: flex; justify-content: space-between;"> <span>TP309</span> <span>⊗ VR313<br/>⊗ VR314</span> </div>  <div style="margin-top: 10px;">             REF : 0.5MHz = 100%<br/>             SPEC : 5MHz = <math>95\% \pm 10\%</math> </div> |              |                                      |

**7-41. C PLAYBACK FREQUENCY RESPONSE**  
**ADJUSTMENT (COARSE)**  
**(FOR AU-62H/AU-65H and AU-62/65)** ( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                             |
|---|------|----------------------------|--|--------------|--|
| TP706<br>F33-AB<br>EDGE CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE   | -----        | VR712 R/P 1 (CH1)<br>VR713 R/P 2 (CH2) |
| 1. SCOPE CH1 : TP706<br>SCOPE CH2 : F33-AB EDGE CONNECTOR (Trigger)<br>2. SCOPE SETTING : Trigger Slope (+)<br>3. Adjust VR712 so that the C R/P CH1 frequency response is $95\% \pm 10\%$ at 1.5MHz portion.<br>4. SCOPE SETTING : Trigger Slope (-)<br>5. Adjust VR713 so that the C R/P CH2 frequency response is $95\% \pm 10\%$ at 1.5MHz portion. |      |                            | <div style="display: flex; justify-content: space-between;"> <span>TP706</span> <span>⊗ VR712<br/>⊗ VR713</span> </div>  <div style="margin-top: 10px;">             REF : 0.25MHz = 100%<br/>             SPEC : 1.5MHz = <math>95\% \pm 10\%</math> </div> |              |  |

# 7-42. C PLAYBACK FREQUENCY RESPONSE ADJUSTMENT (COARSE) (FOR AU-63H / AU-63)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                           |
|---|------|----------------------------|---|--------------|--------------------------------------|
| TP706<br>F32-AB<br>EDGE CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE  | -----        | VR710 AT 1 (CH1)<br>VR711 AT 2 (CH2) |
| 1. SCOPE CH1 : TP706<br>SCOPE CH2 : F32-AB EDGE CONNECTOR (Trigger)<br>2. SCOPE SETTING : Trigger Slope (+)<br>3. Adjust VR710 so that the C AT CH1 frequency response is $95\% \pm 10\%$ at 1.5MHz portion.<br>4. SCOPE SETTING : Trigger Slope (-)<br>5. Adjust VR711 so that the C AT CH2 frequency response is $95\% \pm 10\%$ at 1.5MHz portion. |      |                            | <div style="display: flex; justify-content: space-between;"> <div> <p>TP706</p>  <p>0.5 1.5 (MHz)</p> <p>REF : 0.25MHz = 100%</p> <p>SPEC : 1.5MHz = <math>95\% \pm 10\%</math></p> </div> <div> <p>⊗ VR710<br/>⊗ VR711</p> </div> </div> |              |                                      |

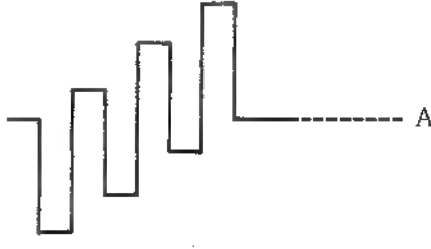
# 7-43. Y DEMOD OUTPUT DC LEVEL ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED               | M.EQ.        | INPUT SIGNAL | ADJUSTMENT     |
|---|------|-------------------------|--------------|--------------|----------------|
| TP311   | PLAY | ALIGNMENT<br>COLOUR BAR | OSCILLOSCOPE | -----        | VR325 (OUT DC) |
| 1. Adjust VR325 so that the pedestal level is DC $0 \pm 0.1V$ . |      |                         |              |              |                |

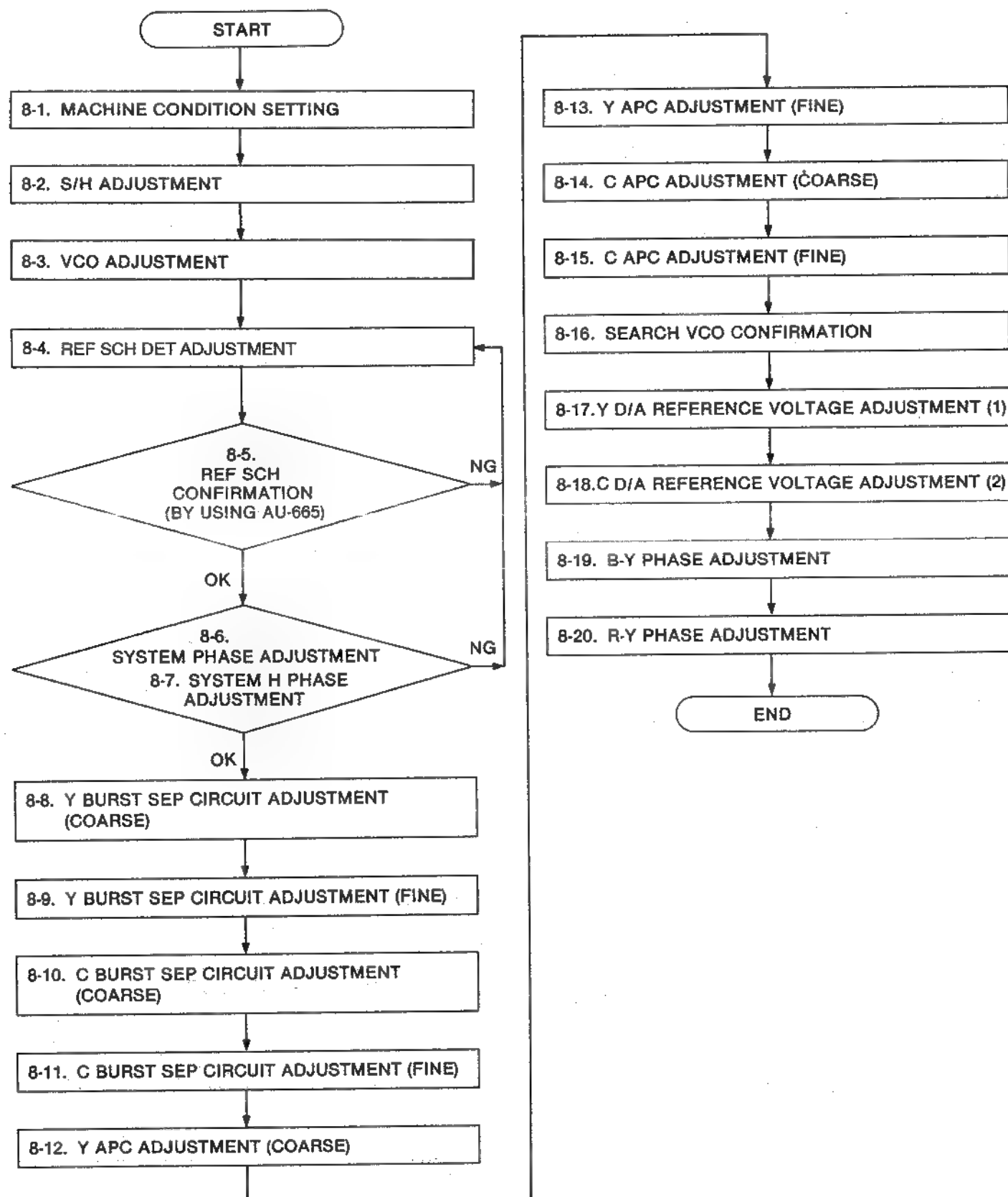
# 7-44. C DEMOD OUTPUT DC LEVEL ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED               | M.EQ.  | INPUT SIGNAL | ADJUSTMENT     |
|--|------|-------------------------|--|--------------|----------------|
| TP708  | PLAY | ALIGNMENT<br>COLOUR BAR | OSCILLOSCOPE   | -----        | VR722 (OUT DC) |
| 1. Adjust VR722 so that blanking DC level is DC $0 \pm 0.1V$ . |      |                         |  <p><math>A = 0 \pm 0.1V (DC)</math></p> |              |                |

## 8. TBC & SYNC GEN. (W1) BOARD (1/2)

### TBC & SYNC GEN. SECTION (1/2) (W1) FLOWCHART FOR ALL MODELS



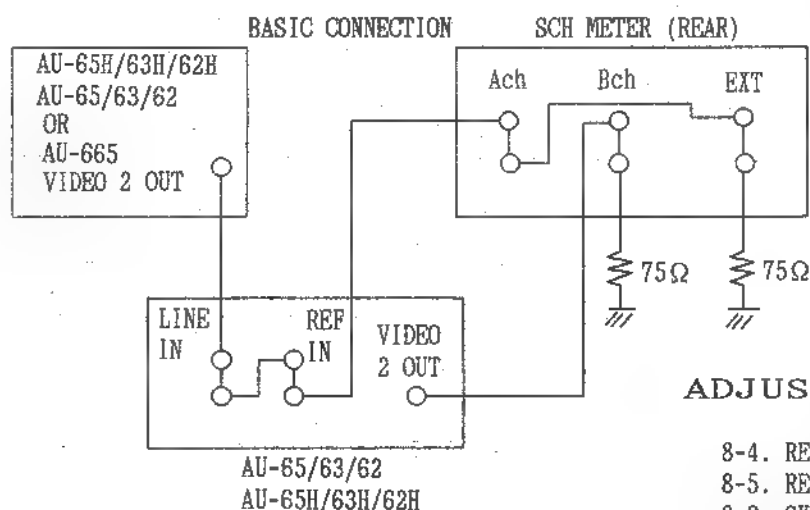
## 8. TBC & SYNC GEN. (W1) BOARD (1/2)

### 8-1. MACHINE CONDITION SETTING

To change the Input SCH Phase, another MII VTR is required Use the SCH Phase Adjustment Fixture as following adjustment section.

\*Note:

1. When AU-665 is used for SCH Adjustment, use SYSTEM SC PHASE (COARSE & FINE) VR on the Front Sub Panel (Behind the Front Panel).



#### ADJUSTMENT SECTION

- 8-4. REFERENCE SCH ADJUSTMENT
- 8-5. REFERENCE SCH & REFERENCE CF CONFIRMATION
- 8-6. SYSTEM PHASE ADJUSTMENT
- 8-7. SYSTEM H PHASE ADJUSTMENT

### 8-2. S/H ADJUSTMENT

( W1 TBC & SYNC GEN )

| TEST POINT                   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL  | ADJUSTMENT        |
|------------------------------|----------------|-----------|---|---|-------------------|
| TP203<br>TP204               | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPOSITE<br>REF. VIDEO<br>SIGNAL TO<br>REF. VIDEO IN | VR201 (S/H PHASE) |
| Step 1.<br>MACHINE CONDITION |                |           | Refer to SET UP Conditions at the beginning of this SECTION (TBC & SYNC GEN W1).                |   |                   |
| Step 2.                      |                |           | <p>○ VR201</p> <p>TP203 (BURST)</p> <p>TP204 (S/H PULSE)</p> <p><math>A = B \pm 10\%</math></p> |   |                   |

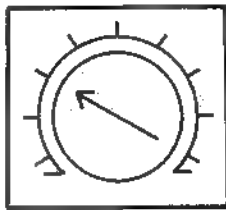
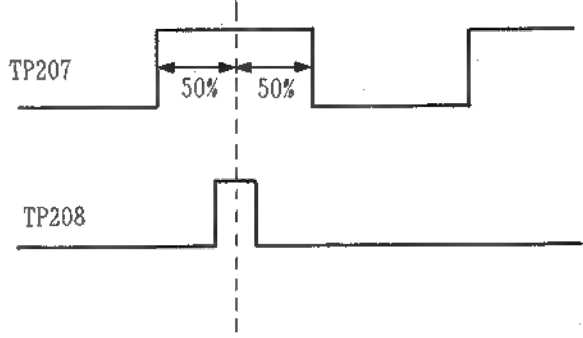
### 8-3. VCO ADJUSTMENT 17.7MHz

( W1 TBC & SYNC GEN )

| TEST POINT   | MODE           | TAPE USED | M.EQ.        | INPUT SIGNAL  | ADJUSTMENT |
|--|----------------|-----------|--------------|---|------------|
| TP206  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE | COMPOSITE<br>REF. VIDEO<br>SIGNAL TO<br>REF. VIDEO IN | C234       |
| <ol style="list-style-type: none"> <li>1. Connect the SCOPE to TP206.</li> <li>2. Adjust C234 so that D.C. voltage at TP206 is 0V.</li> <li>3. Confirm C234 so that D.C. voltage at TP206 is 0V with no reference VIDEO signal.</li> </ol> |                |           |              |   |            |



### 8-4. REF SCH DET ADJUSTMENT

( W1 TBC & SYNC GEN )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT      |
|--|----------------|-----------|--|--------------|-----------------|
| FIELD REF<br>AT SIGNAL GEN<br><br>TP207<br>TP208<br>TP214  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | REF VIDEO    | VR202 (SCH DET) |
| <p>Step 1. (CORASE)</p> <ol style="list-style-type: none"> <li>1. Preset VR202 (SCH DET) to the 10 o'clock position.</li> </ol>  |                |           | <p>⊗ VR202</p>  |              |                 |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. Confirm input reference signal to REF VIDEO input with SCH 0°.</li> <li>2. Connect the scope to TP207 and TP208 with V rate.</li> <li>3. Adjust VR202 so that the pulse at TP208 is centre of the pulse at TP207 as shwon in figure.</li> </ol> |                |           |                  |              |                 |

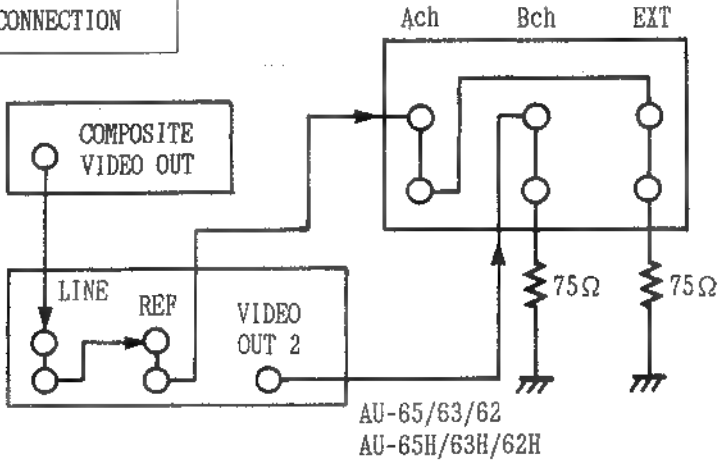
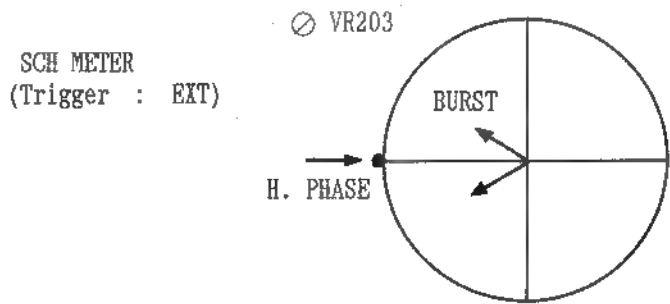
# 8-5. REF SCH CONFIRMATION (BY USING AU-665)

( W1 TBC & SYNC GEN )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|--|----------------|-----------|--|--------------|------------|
| REF SCH LAMP<br>(on Front<br>Panel)  | EJECT<br>(E-E) | -----     | OSCILLOSCOPE   | REF VIDEO    | -----      |
| Note:<br>This confirmation in case of having<br>AU-665 only.   |                |           |  |              |            |
| Step 1.<br>MACHINE CONDITION   |                |           | Refer to Set Up Conditions at the beginning<br>of this SECTION (TBC & SYNC GEN W1).  |              |            |
| Step 2.<br><br>1. Change the REF SCH phase from -45°<br>TO +45° by signal generator (TEK1411).<br>2. Confirm that the REF SCH LAMP on the<br>Front Panel turns "ON".                     |                |           | REF. SCH  ON<br><br>SCH PHASE = ±45°                                  |              |            |
| Step 3.<br><br>1. Change the REF SCH phase less than<br>-65° and more than +65° by signal<br>generator (TEK1411).<br>2. Confirm that the REF SCH LAMP on the<br>Front Panel turns "OFF". |                |           | REF. SCH  OFF<br><br>SCH PHASE = Less than -65°<br>= more than +65° |              |            |
| Step 4.<br><br>1. If it is not satisfied above<br>condition, readjust, the REF. SCH<br>adjustment 8-4-P and 8-5-P.<br>(This adjustment.)   |                |           |  |              |            |

## 8-6. SYSTEM PHASE ADJUSTMENT

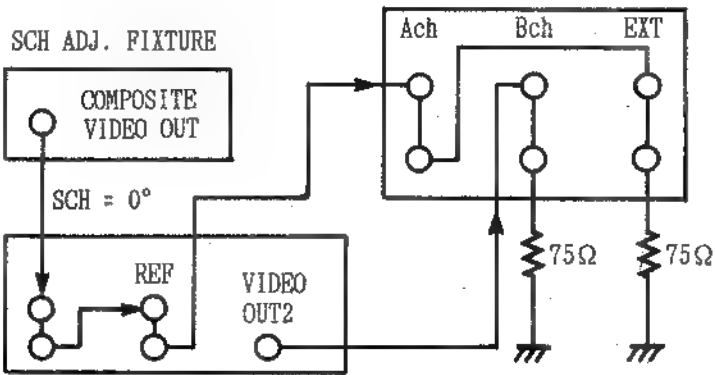
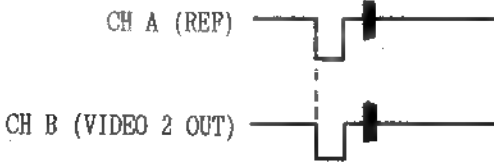
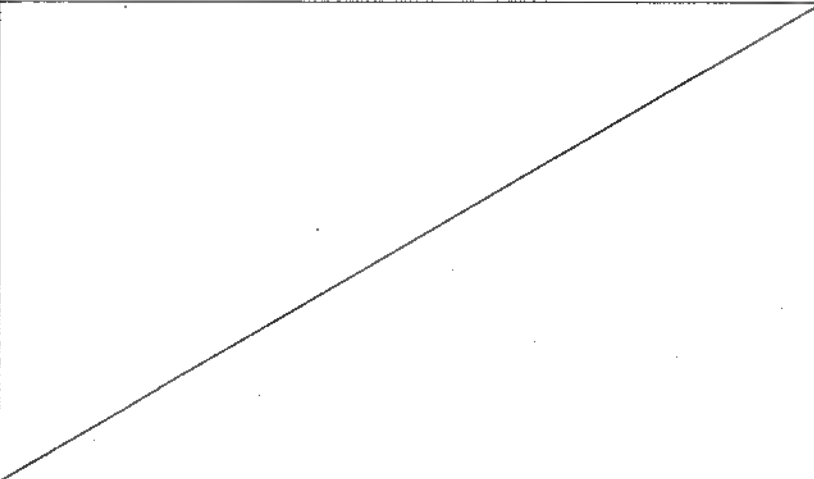
( W1 TBC & SYNC GEN )

| TEST POINT   | MODE   | TAPE USED   | M.EQ.  | INPUT SIGNAL   | ADJUSTMENT                             |
|--|--|---|--|--|--|
| REF VIDEO<br>VIDEO 2   | E-E (EJECT)<br>FOR AU-65H/65<br>PLAY<br>(FOR AU-63H/<br>62H/63/62) | ALIGNMENT<br>TAPE<br>COLOUR BAR<br>(FOR AU-63H/<br>62H/63/62) | SCH METER  | REF. VIDEO<br>(SCH 0°)   | VR206 (CK1 PHASE)<br>VR204 (SCH PHASE) |
| Step 1.<br>MACHINE CONDITION   |  |   | Refer to the Set Up Conditions at the beginning of this SECTION (TBC & SYNC GEN W1). |  |  |
| Step 2.  |  |   | CONNECTION   |   |  |
| 1. Set the REF. SCH Phase to 0° with the another MII VTR.<br>2. SYS SC FINE (Pull Out Drawer) : DETENT POSITION<br>3. SCH METER'S trigger is EXT.<br>4. Change the SCH INPUT SELECT (A and B) alternatly.<br>5. Adjust VR204 and VR206 so that the A channel REF VIDEO H phase and the B channel VIDEO 2 OUT H phase are the same ( $0^\circ \pm 2^\circ$ ). |  |   | SPEC   |  |  |



# 8-7. SYSTEM H PHASE ADJUSTMENT

( W1 TBC & SYNC GEN )

| TEST POINT   | MODE   | TAPE USED  | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT      |
|--|--|--|--|------------------------|-----------------|
| VIDEO 2<br>REF VIDEO   | E-E (EJECT)<br>FOR AU-65H/65<br>PLAY<br>(FOR AU-63H/<br>62H/63/62) | ALIGNMENT<br>TAPE<br>COLOR BAR<br>(FOR AU-63H/<br>62H/63/62) | SCH<br>METER<br>(WFM Mode)   | REF. VIDEO<br>(SCH 0°) | VR205 (H PHASE) |
| <p>1. CONNECTION</p> <p>2. MACHINE CONDITION<br/>Refer to the Machine Set Up Condition for TBC &amp; SYNC GEN (W1).</p>  |  |  |  <p>AU-62H/AU-63H/AU-65H - AU-62/AU-63/AU-65</p> |                        |                 |
| <p>3. SCH METER : WFM Mode</p> <p>4. Change the channel A and B alternately.</p> <p>5. Adjust VR205 so that the B channel's falling edge of Sync becomes the same as the A channel falling edge of Sync as shown.</p>  |  |  |    |                        |                 |
| <p>6. CONFIRMATION</p> <p>(1) REF VIDEO and VIDEO 2, H phase converge on same point when the power is turned ON and OFF.</p> <p>(2) When the SYSTEM SC COARSE (on Front Pull Out Drawer) is changed to <math>\pm 90^\circ</math>, SYSTEM SC phase moves <math>\pm 57\text{nsec}</math>.</p> <p>7. If it is not within specification, readjust VR205.</p> |  |  |    |                        |                 |

# 8-8. Y BURST SEP CIRCUIT ADJUSTMENT (COARSE)

( W1 - TBC & SYNC GEN )

| TEST POINT                   | MODE | TAPE USED                       | M.EQ.        | INPUT SIGNAL | ADJUSTMENT           |
|------------------------------|------|---------------------------------|--------------|--------------|----------------------|
| F15B<br>(CONNECTOR)<br>TP412 | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE | -----        | VR401 (Y SYNC PHASE) |

⊙ VR401

F 1 5 B

TP 4 1 2  
(Trigger)

A

A = 7.0  $\mu$ sec.  
(Trigger : TP412)

# 8-9. Y BURST SEP CIRCUIT ADJUSTMENT (FINE)

( W1 - TBC & SYNC GEN )

| TEST POINT     | MODE | TAPE USED                       | M.EQ.        | INPUT SIGNAL | ADJUSTMENT           |
|----------------|------|---------------------------------|--------------|--------------|----------------------|
| TP412<br>TP413 | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE | -----        | VR401 (Y SYNC PHASE) |

⊙ VR401

TP 4 1 2  
(Trigger)

TP 4 1 3  
(Y Pilot Burst)

A

B

A = B  $\pm$  10%  
(Trigger : TP412)

# 8-10. C BURST SEP CIRCUIT ADJUSTMENT (COARSE)

( W1 TBC & SYNC GEN )

| TEST POINT                   | MODE | TAPE USED                       | M.EQ.        | INPUT SIGNAL | ADJUSTMENT           |
|------------------------------|------|---------------------------------|--------------|--------------|----------------------|
| F16B<br>(CONNECTOR)<br>TP416 | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE | -----        | VR409 (C SYNC PHASE) |

⊘ VR409

F16B

TP416  
(Trigger)

$A = 1.5 \mu\text{sec.}$   
(Trigger : TP416)

A

# 8-11. C BURST SEP CIRCUIT ADJUSTMENT (FINE)

( W1 TBC & SYNC GEN )

| TEST POINT     | MODE | TAPE USED                       | M.EQ.        | INPUT SIGNAL | ADJUSTMENT           |
|----------------|------|---------------------------------|--------------|--------------|----------------------|
| TP416<br>TP417 | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE | -----        | VR409 (C SYNC PHASE) |

⊘ VR409

TP416  
(Trigger)

TP417  
(C Pilot Burst)

$A = B \pm 10\%$   
(Trigger : TP416)

A

B

## 8-12. Y APC ADJUSTMENT (COARSE)

( W1 TBC & SYNC GEN )

| TEST POINT | MODE | TAPE USED                       | M.EQ.        | INPUT SIGNAL | ADJUSTMENT      |
|------------|------|---------------------------------|--------------|--------------|-----------------|
| TP427      | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE | -----        | VR403 ( Y APC ) |

$A = 150 \text{ ns} \pm 5 \text{ ns}$

## 8-13. Y APC ADJUSTMENT (FINE)

( W1 TBC & SYNC GEN )

| TEST POINT | MODE | TAPE USED                       | M.EQ.        | INPUT SIGNAL | ADJUSTMENT      |
|------------|------|---------------------------------|--------------|--------------|-----------------|
| TP425      | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE | -----        | VR403 ( Y APC ) |

1. SCOPE SETTING : GND
2. Set the scan line to the centre position on the scope.
3. SCOPE SETTING : AC MODE
4. Adjust VR403 so that the A and B are balanced as shown.

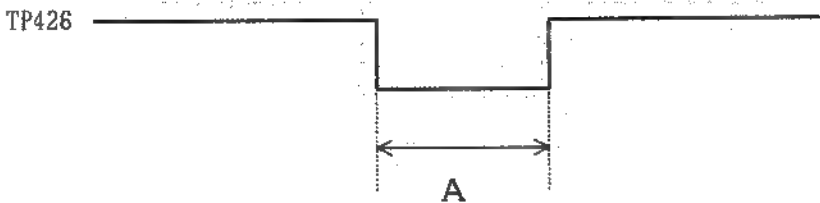
$A = B \pm 10\% \text{ (V RATE)}$

# 8-14. C APC ADJUSTMENT (COARSE)

( W1 TBC & SYNC GEN )

| TEST POINT | MODE | TAPE USED                       | M.EQ.        | INPUT SIGNAL | ADJUSTMENT      |
|------------|------|---------------------------------|--------------|--------------|-----------------|
| TP426      | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE | -----        | VR408 ( C APC ) |

⊗ VR408



TP426

A

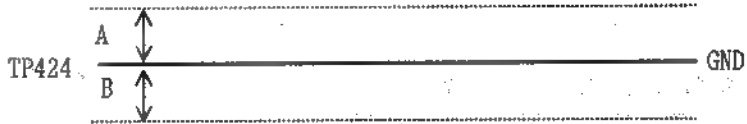
$A = 150 \text{ ns} \pm 5 \text{ ns}$

# 8-15. C APC ADJUSTMENT (FINE)

( W1 TBC & SYNC GEN )

| TEST POINT | MODE | TAPE USED                       | M.EQ.        | INPUT SIGNAL | ADJUSTMENT      |
|------------|------|---------------------------------|--------------|--------------|-----------------|
| TP424      | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE | -----        | VR408 ( C APC ) |

1. SCOPE SETTING : GND
2. Set the scan line to the centre position on the scope.
3. SCOPE SETTING : AC MODE
4. Adjust VR408 so that the A and B are balanced as shown in figure.



TP424

A

B

GND

$A = B \pm 10\% \text{ (V LATE)}$

## 8-16. SEARCH VCO CONFIRMATION

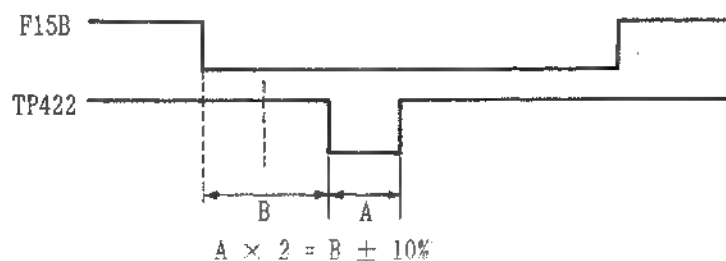
( W1 TBC & SYNC GEN )

| TEST POINT                      | MODE              | TAPE USED                       | M.EQ.        | INPUT SIGNAL | ADJUSTMENT         |
|---------------------------------|-------------------|---------------------------------|--------------|--------------|--------------------|
| TP422<br>F15B<br>(W1 connector) | SHTL<br>&<br>PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE | -----        | VR402 (SEARCH VCO) |

### CONFIRMATION

1. SHTL  $\pm$   $\times 4$  SPEED = WITH COLOUR PLAYBACK.
2. SHTL  $\pm$  32 SPEED = BLACK & WHITE PICTURE (WITHOUT HORIZONTAL EXTENSION AND COMPRESSION)

If it is not, readjust VR402 so that the pulse width at TP422 is as shown in Figure at playback.



## 8-17. Y D/A REFERENCE VOLTAGE ADJUSTMENT (1)

( W1 TBC & SYNC GEN )

| TEST POINT  | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT       |
|---|------|---------------------------------|---|--------------|------------------|
| TP1   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | Digital<br>Voltage<br>Meter                               | -----        | VR1 (AJ. REF. 1) |
| Step 1.<br>MACHINE CONDITION                        |      |                                 | VIDEO LEVEL VR = CENTRE<br>(on Pull Out Drawer)           |              |                  |
| Step 2.<br>1. Connect D.V.M. to TP1 and adjust VR1. |      |                                 | $\varnothing$ VR1<br>SPECIFICATION = $4.1 \pm 0.01V$ (DC) |              |                  |


## 8-18. C D/A REFERENCE VOLTAGE ADJUSTMENT (2)

( W1 TBC & SYNC GEN )

| TEST POINT  | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT       |
|---|------|---------------------------------|---|--------------|------------------|
| TP2   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | Digital<br>Voltage<br>Meter   | -----        | VR2 (AJ. REF. 2) |
| Step 1.<br><br>MACHINE CONDITION                        |      |                                 | Set the switches on the Pull Out Drawer as follows.<br>1. VIDEO LEVEL VR : CENTRE<br>2. CHROMA LEVEL : CENTRE<br>3. PR LEVEL : CENTRE<br>4. PB LEVEL : CENTRE |              |                  |
| Step 2.<br><br>1. Connect D.V.M. to TP2 and adjust VR2. |      |                                 | ⌀ VR2<br><br>SPECIFICATION = $4.1 \pm 0.01V$ (DC)   |              |                  |


## 8-19. B-Y PHASE ADJUSTMENT

( W1 TBC & SYNC GEN )

|   |  |
|---|--|
| Step 1.<br><br>1. Turn VR405 centre position.<br><br>Note:<br>VR405 is for user, so confirm the user setting. | VR406<br><br> |
|---|--|

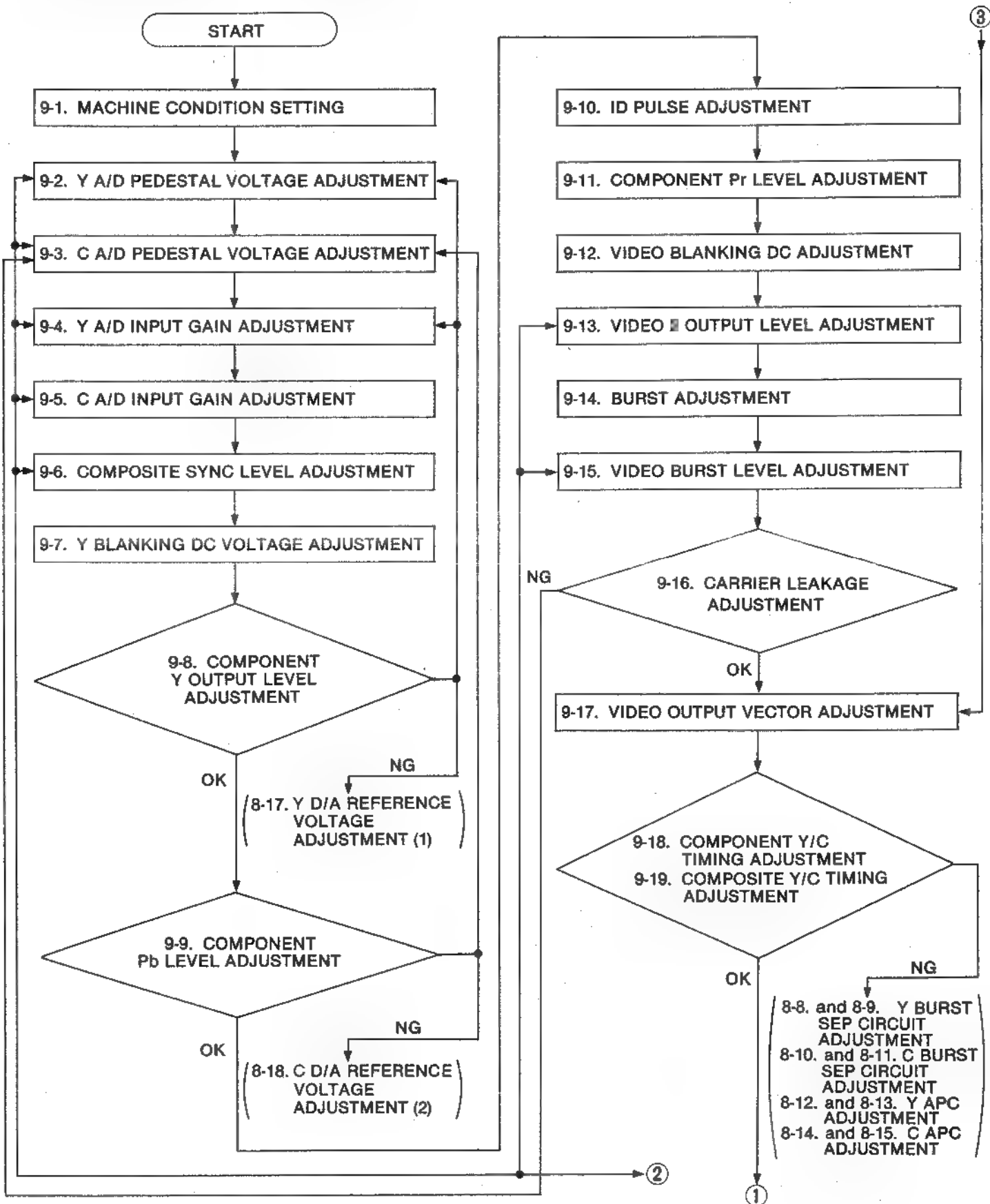
## 8-20. R-Y PHASE ADJUSTMENT

( W1 TBC ■ SYNC GEN )

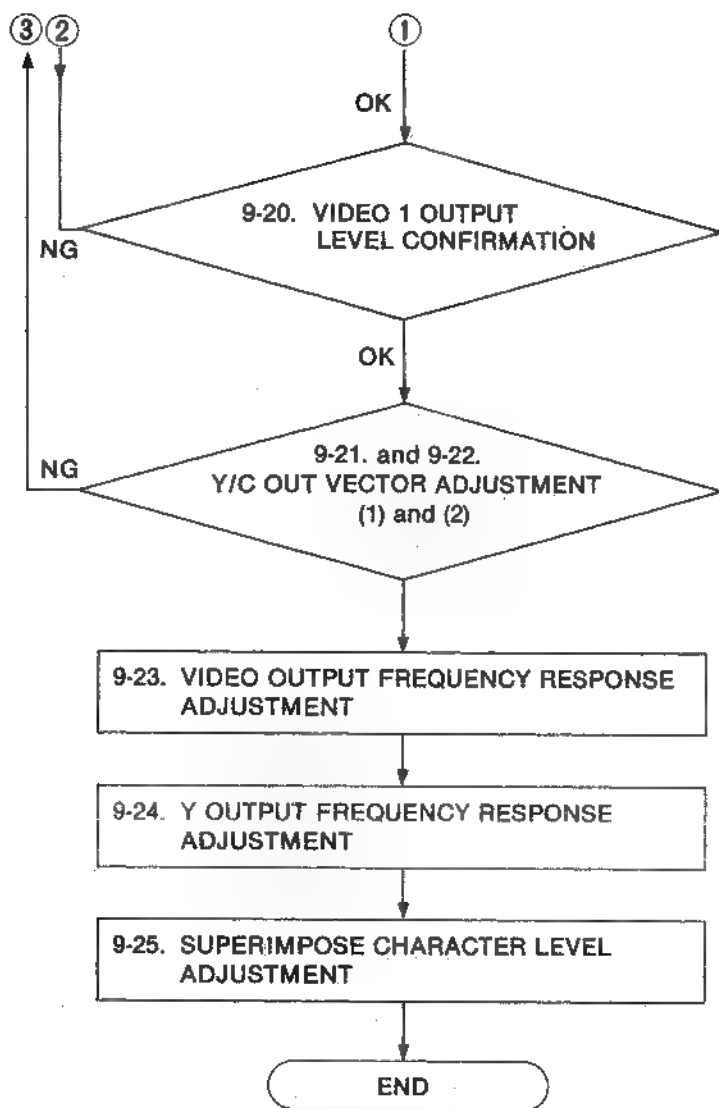
|   |  |
|---|--|
| Step 1.<br><br>1. Turn VR406 centre position.<br><br>Note:<br>VR406 is for user, so confirm the user setting. | VR406<br><br> |
|---|--|

## 9. ENCODER (W2) BOARD (1/2)

### ENCODER SECTION (1/2) (W2) FLOWCHART FOR ALL MODELS







## 9. ENCODER (W2) BOARD (1/2)

### 9-1. MACHINE CONDITION SETTING

Use 75 $\Omega$  terminator with Waveform Monitor or Oscilloscope for level adjustment.

- |  |       |                 |
|--|-------|-----------------|
| 1. CF SELECT SW ( on Front Sub Panel )               | ----- | 8F              |
| 2. SYNC SELECT SW ( on Front Sub Panel )             | ----- | AUTO            |
| 3. COMPONENT Y/Pr/Pb LEVEL VR ( on Pull Out Drawer ) | ---   | DETENT POSITION |
| 4. VIDEO LEVEL VR                                    | ----- | DETENT POSITION |
| 5. SET UP LEVEL VR                                   | ----- | DETENT POSITION |
| 6. CHROMA LEVEL VR                                   | ----- | DETENT POSITION |
| 7. HUE VR  | ----- | DETENT POSITION |

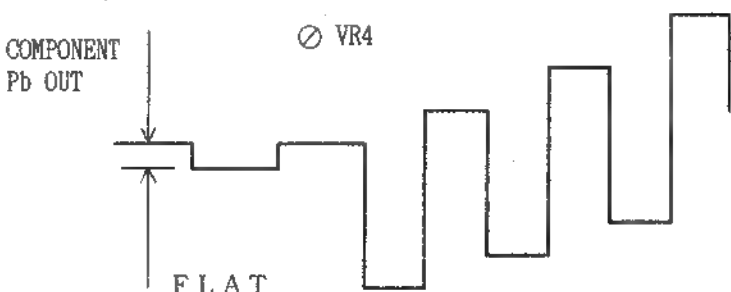
### 9-2. Y A/D PEDESTAL VOLTAGE ADJUSTMENT

( W2 ENCODER )

| TEST POINT  | MODE | TAPE USED                               | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|---|------|---|--|--------------|--------------|
| TP201   | PLAY | ALIGNMENT<br>TAPE<br>100%<br>COLOUR BAR | OSCILLOSCOPE   | -----        | VR 2 (Y REF) |
| 1. SCOPE : TP201<br><br>2. When VR2 is turned, a step will appear at pedestal.<br><br>3. Adjust VR2 so that "A" part is "FLAT". |      |   | <div style="text-align: center;"> <p>TP201 <math>\oslash</math> VR2</p> </div> |              |              |

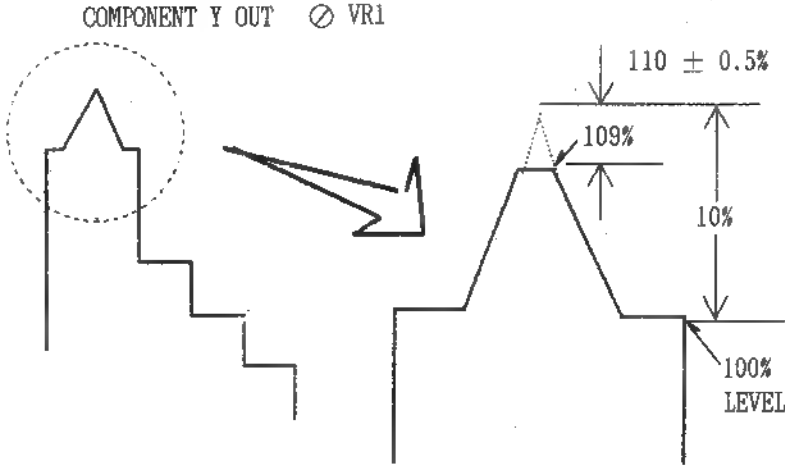
### 9-3. C A/D PEDESTAL VOLTAGE ADJUSTMENT

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                               | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|--|------|---|--|--------------|--------------|
| COMPONENT<br>Pb OUT  | PLAY | ALIGNMENT<br>TAPE<br>100%<br>COLOUR BAR | OSCILLOSCOPE   | -----        | VR 4 (C REF) |
| 1. SCOPE : COMPONENT Pb OUT<br>2. When VR4 is turned, a step will appear at pedestal.<br>3. Adjust VR4 so that the step at pedestal is "FLAT". |      |   |  |              |              |

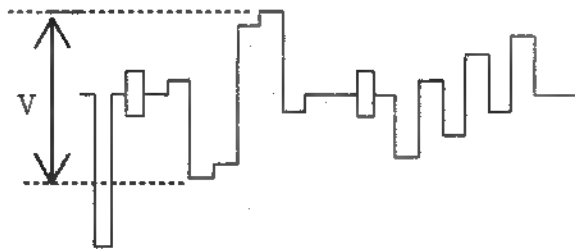
### 9-4. Y A/D INPUT GAIN ADJUSTMENT

( W2 ENCODER )

| TEST POINT   | MODE   | TAPE USED  | M.EQ.  | INPUT SIGNAL   | ADJUSTMENT  |
|--|--|--|--|--|-------------|
| COMPONENT<br>Y OUT   | E-E<br>(For AU-65H/65)<br>PLAY<br>(For AU-63H/62H/63/62) | Pre-recorded<br>Level<br>Reference<br>Colour Bar<br>(For AU-63H/62H/63/62) | WAVEFORM<br>MONITOR<br>OR<br>OSCILLOSCOPE  | COMPONENT<br>COLOUR BAR<br>LEVEL<br>REFERENCE SIGNAL | VR 1 (Y. G) |
| <p>Step 1. (For AU-65H/65)</p> <p>1. SCOPE : COMPONENT Y OUT</p> <p>2. Adjust VR1 so that the Top portion is clipped as shown in figure.</p>   |  |  |  |  |             |
| <p>Step 2. (For AU-63H/62H and 63/62)</p> <p>1. SCOPE : COMPONENT Y OUT</p> <p>2. Play back the Pre-recorded Colour Bar Level Reference Signal.</p> <p>3. Adjust VR1 so that the Top Portion of the Colour Bar Level Reference Signal is clipped as shown in figure.</p> |  |  |  |  |             |

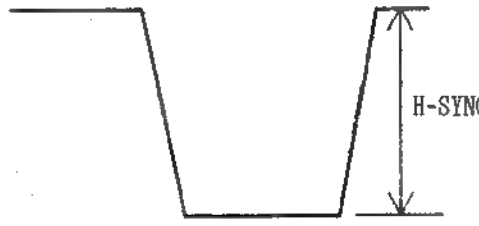
## 9-5. C A/D INPUT GAIN ADJUSTMENT

( W2 ENCODER )

| TEST POINT  | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT  |
|---|------|---------------------------------|---|--------------|-------------|
| TP 4  | PLAY | ALIGNMENT<br>COLOUR BAR<br>100% | OSCILLOSCOPE  | -----        | VR 3 (C. G) |
| 1. Adjust VR3 so that R-Y level is $1.75 \pm 0.02V_{p-p}$ . |      |                                 | TP4 $\oslash$ VR3<br><br>$V = 1.75 \pm 0.02V_{p-p}$ |              |             |


## 9-6. COMPOSITE SYNC LEVEL ADJUSTMENT

( W2 ENCODER )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL | ADJUSTMENT      |
|--|----------------|-----------|---|--------------|-----------------|
| VIDEO 2<br>OUT   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE<br>(with 75 $\Omega$<br>terminator)  | -----        | VR210 (SYNC. G) |
| 1. Adjust VR210 so that H-SYNC level is $0.3 \pm 0.006V_{p-p}$ . |                |           | VIDEO 2<br>OUT<br>$\oslash$ VR210<br><br>H. SYNC LEVEL = $0.3 \pm 0.006V_{p-p}$ |              |                 |

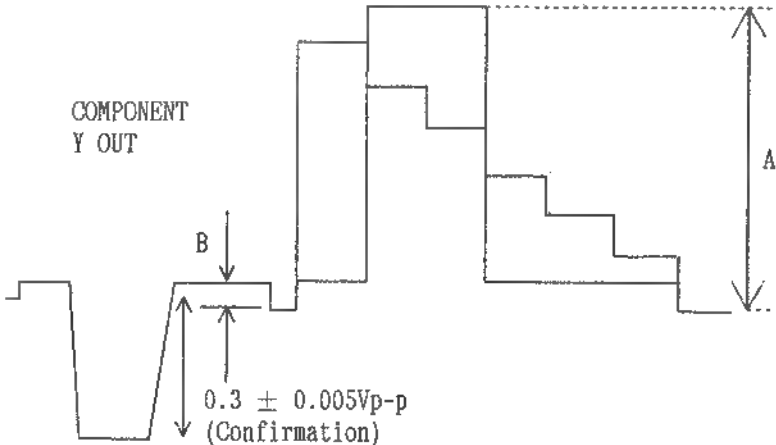
## 9-7. Y BLANKING DC VOLTAGE ADJUSTMENT

( W2 ENCODER )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT        |
|--|----------------|-----------|--|--------------|-------------------|
| COMPONENT<br>Y OUT   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | -----        | VR202 (Y. BLK DC) |
| 1. Adjust VR202 so that H-BLANKING DC level is $0 \pm 20\text{mV}$ at COMPONENT Y OUT. |                |           | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <math>\odot</math> VR202           </div> <div style="text-align: center;">             DC BLANKING LEVEL = <math>0 \pm 20\text{mV}</math> </div> </div>  |              |                   |

## 9-8. COMPONENT Y OUTPUT LEVEL ADJUSTMENT

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                    |
|--|------|---------------------------------|--|--------------|-------------------------------|
| COMPONENT<br>Y OUT   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE<br>(with $75\Omega$ terminator)   | -----        | VR200 (Y. G)<br>VR201 (Y. DC) |
| 1. Confirm that the sync level is $0.3 \pm 0.005\text{Vp-p}$ .<br><br>2. If sync level is incorrect, readjust COMPOSITE SYNC LEVEL ADJ. (9-6)<br><br>3. Adjust VR200 so that the Y signal level is $0.7 \pm 0.007\text{Vp-p}$ .<br><br>4. Adjust VR201 so that Y pedestal DC is $0 \pm 5\text{mV}$ . |      |                                 | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">             COMPONENT<br/>Y OUT           </div>  </div> <div style="margin-top: 10px;"> <math>\odot</math> VR200    <math>A = 0.7 \pm 0.007\text{Vp-p}</math><br/> <math>\odot</math> VR201    <math>B = 0 \pm 5\text{mV (DC)}</math> </div> |              |                               |

## 9-9. COMPONENT Pb LEVEL ADJUSTMENT

( W2 ENCODER )

| TEST POINT          | MODE | TAPE USED                               | M.EQ.                                    | INPUT SIGNAL | ADJUSTMENT                      |
|---------------------|------|---|--|--------------|---------------------------------|
| COMPONENT<br>Pb OUT | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR<br>100% | OSCILLOSCOPE<br>(with 75Ω<br>terminator) | -----        | VR203 (PB. G)<br>VR204 (PB. DC) |

COMPONENT Pb OUT

⊙ VR203  
⊙ VR204 (PAL)

$A = 0.7 \pm 0.007V_{p-p}$   
"B" portion DC voltage =  $0 \pm 20mV$

## 9-10. ID PULSE ADJUSTMENT

( W2 ENCODER )

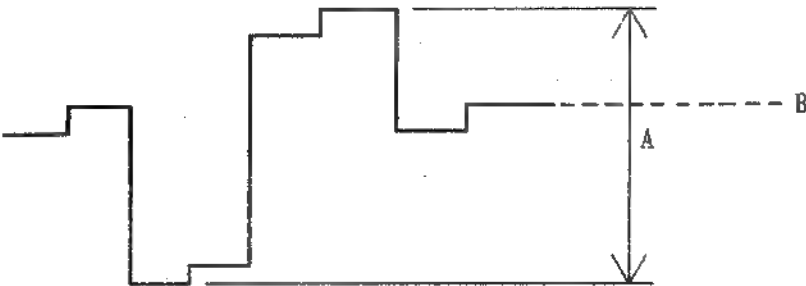
| TEST POINT          | MODE | TAPE USED  | M.EQ.                                    | INPUT SIGNAL                    | ADJUSTMENT     |
|---------------------|------|------------|--|---------------------------------|----------------|
| COMPONENT<br>Pb OUT | REC  | BLANK TAPE | OSCILLOSCOPE<br>(with 75Ω<br>terminator) | COMPOSITE<br>100%<br>COLOUR BAR | VR212 (ID BAL) |

|   |   |
|---|---|
| <p>Step 1.</p> <p style="text-align: center;">MACHINE CONDITION</p>   | <p>Refer to SET UP Conditions at the beginning of this SECTION (ENCODER - W2).</p>  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>Adjust VR212 so that the ID pulse levels A and B are equal (See fig.)</li> <li>Confirm that the ID pulse level is <math>A = B = 0.3 \sim 0.35V</math>.</li> </ol> | <div style="text-align: center;"> <p>COMPONENT Pb OUT</p> <p>I D PULSE      ⊙ VR212</p> <p><math>A = B = 0.3 \sim 0.35V_{p-p}</math></p> </div> |

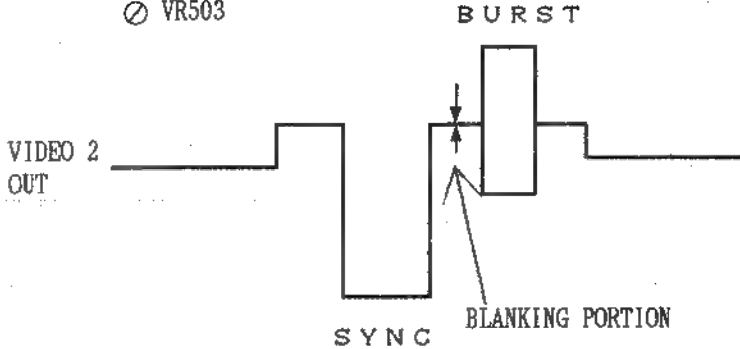
# 9-11. COMPONENT Pr LEVEL ADJUSTMENT

( W2 ENCODER )

| TEST POINT  | MODE | TAPE USED                               | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                      |
|---|------|---|--|--------------|---------------------------------|
| COMPONENT<br>Pr OUT   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR<br>100% | OSCILLOSCOPE<br><br>(with 75Ω<br>terminator)                                   | -----        | VR205 (PR. G)<br>VR206 (PR. DC) |
| Step 1.<br>MACHINE CONDITION  |      |   | Refer to SET UP Conditions at the beginning<br>of this SECTION (ENCODER - W2). |              |                                 |
| <div> <div>COMPONENT<br/>Pr OUT</div> <div> <div>⊘ VR205</div> <div>⊘ VR206</div> </div>  <div> <math>A = 0.7 \pm 0.007V_{p-p}</math><br/>           "B" portion DC voltage <math>0 \pm 20mV_{p-p}</math> </div> </div> |      |   |  |              |                                 |

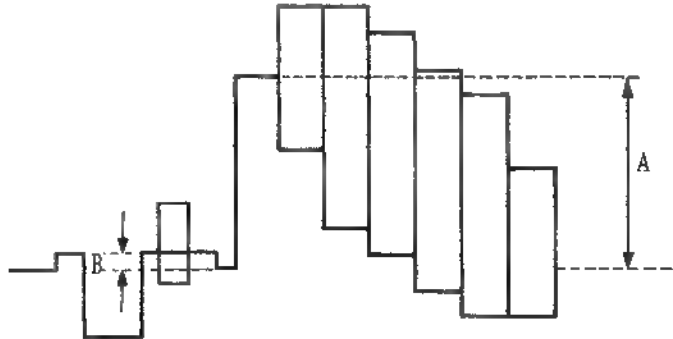
# 9-12. VIDEO BLANKING DC ADJUSTMENT

( W2 ENCODER )

| TEST POINT   | MODE  | TAPE USED | M.EQ.        | INPUT SIGNAL | ADJUSTMENT          |
|--|-------|-----------|--------------|--------------|---------------------|
| VIDEO 2<br>OUT   | EJECT | -----     | OSCILLOSCOPE | -----        | VR503 (V1, BLK, DC) |
| <div> <div>⊘ VR503</div> <div>VIDEO 2<br/>OUT</div>  <div> <math>A = 0.7 \pm 0.007V_{p-p}</math><br/>           "B" portion DC voltage <math>0 \pm 20mV_{p-p}</math> </div> </div> |       |           |              |              |                     |

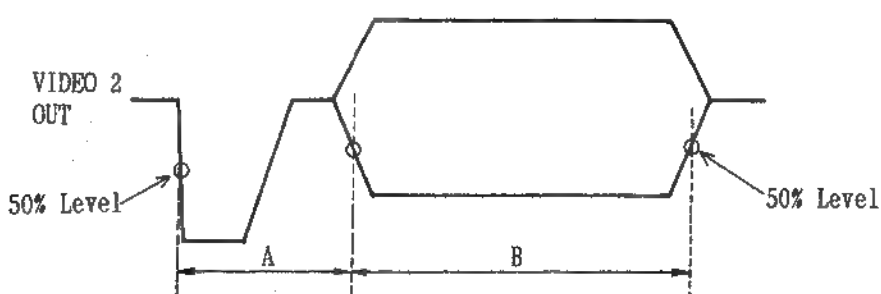
### 9-13. VIDEO 2 OUTPUT LEVEL ADJUSTMENT

( W2 ENCODER )

| TEST POINT  | MODE | TAPE USED                            | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                            |
|---|------|--------------------------------------|--|--------------|---------------------------------------|
| VIDEO 2 OUT   | PLAY | ALIGNMENT TAPE<br>COLOUR BAR<br>100% | OSCILLOSCOPE<br>(with 75Ω terminator)  | -----        | VR501 (VIDEO. G)<br>VR502 (VIDEO. DC) |
| Step 1.<br>MACHINE CONDITION  |      |                                      | Refer to SET UP Conditions at the beginning of this SECTION (ENCODER - W2).  |              |                                       |
| Step 2.<br><br>1. Adjust VR501 so that the video level (A) is $0.7 \pm 0.007V_{p-p}$ .<br><br>2. Adjust VR502 so that the Video DC level (B) is $0 \pm 5mV$ DC. |      |                                      |  <p> <math>\text{VR501} \quad A = 0.7 \pm 0.007V_{p-p}</math><br/> <math>\text{VR502} \quad B = 0 \pm 5mV \text{ (DC)}</math> </p> |              |                                       |

### 9-14. BURST ADJUSTMENT

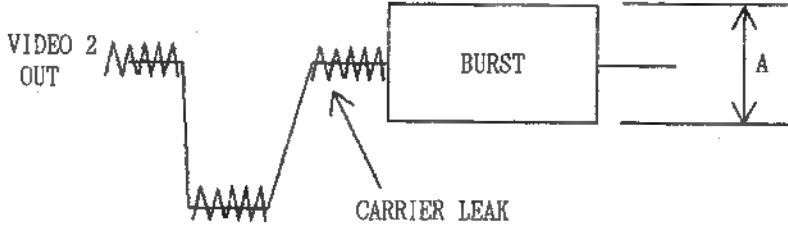
( W2 ENCODER )

| TEST POINT     | MODE        | TAPE USED  | M.EQ.        | INPUT SIGNAL                    | ADJUSTMENT                            |
|----------------|-------------|--|--------------|---------------------------------|---------------------------------------|
| VIDEO 2 OUT    | E-E (EJECT) | -----  | OSCILLOSCOPE | COMPONENT<br>100%<br>COLOUR BAR | VR510 (BF $\phi$ )<br>VR511 (BF. WID) |
| SPECIFICATIONS |             |  <p> BURST POSITION : <math>A = 5.6 \pm 0.1\mu\text{sec.}</math><br/> (<math>\text{VR510}</math>)<br/><br/> BURST WIDTH : <math>B = 2.25 \pm 0.23\mu\text{sec.}</math><br/> (<math>\text{VR511}</math>) </p> |              |                                 |                                       |



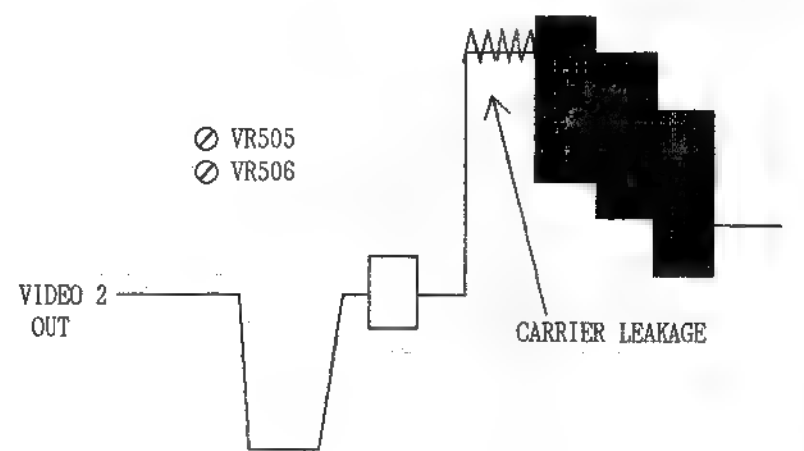
## 9-15. VIDEO BURST LEVEL ADJUSTMENT

( W2 ENCODER )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                    |
|--|----------------|-----------|--|--------------|---|
| VIDEO 2<br>OUT   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE<br><br>(with 75Ω<br>terminator)   | -----        | VR513 (V1. BURST. G)<br><br>VR512 (BURST BAL) |
| 1. Adjust VR513 so that the burst level<br>(A) is $0.3 \pm 0.004V_{p-p}$ .<br><br>2. Adjust VR512 so that the carrier leak<br>is nulled. |                |           |  <p>             BURST LEVEL : <math>A = 0.3 \pm 0.004V_{p-p}</math><br/>             (⊗ VR513)<br/><br/>             CARRIER LEAK → NULLED (less than 3mVp-p)<br/>             (⊗ VR512)           </p> |              |   |

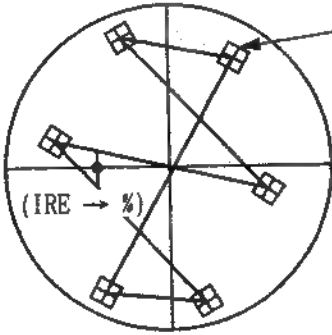
## 9-16. CARRIER LEAKAGE ADJUSTMENT

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                           |
|--|------|---------------------------------|--|--------------|--------------------------------------|
| VIDEO 2<br>OUT   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE<br><br>(with 75Ω<br>terminator) | -----        | VR505 (PB BAL)<br><br>VR506 (PR BAL) |
| 1. Adjust VR505 and VR506 so that the carrier leakage of the white portion is nulled.  |      |                                 |  |              |                                      |
|  <p>             SPEC : CARRIER LEAKAGE IS LESS THAN 3mVp-p           </p> |      |                                 |  |              |                                      |
| 2. If it is not, check the C A/D PEDESTAL VOLTAGE ADJ. (9-3)   |      |                                 |  |              |                                      |

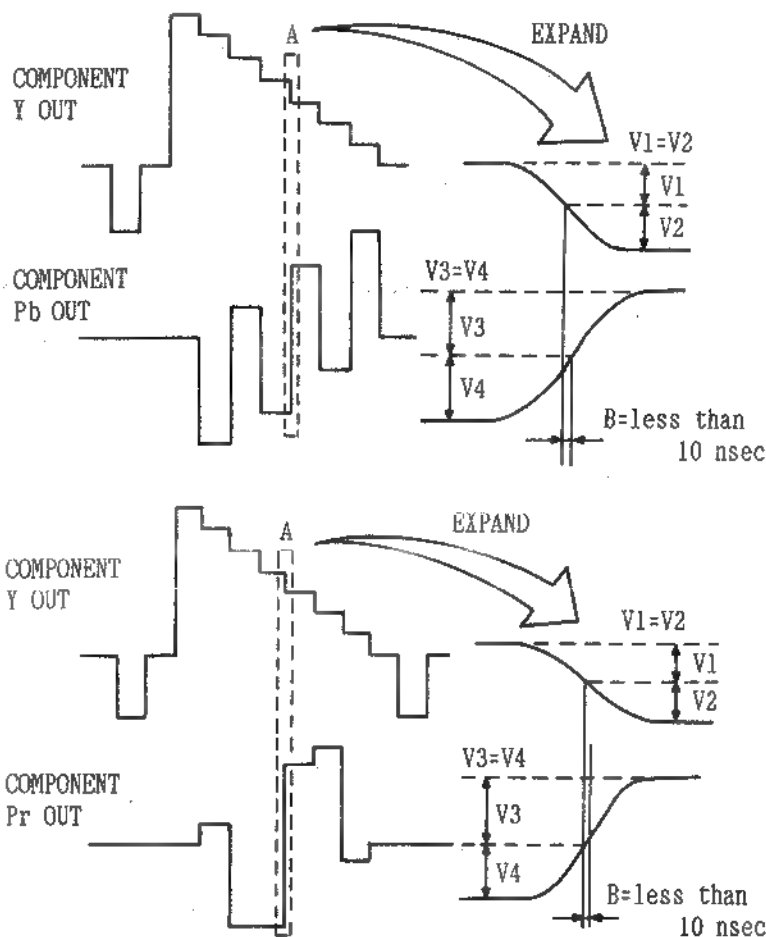
# 9-17. VIDEO OUTPUT VECTOR ADJUSTMENT

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT  |
|--|------|---------------------------------|--|--------------|---|
| VIDEO 2<br>OUT   | PLAY | ALIGNMENT<br>COLOUR BAR<br>100% | VECTOR SCOPE<br>(or TEK 1750)  | -----        | VR209 (UV BAL)<br>VR507 (VIDEO. CG)<br>VR515 (HUE. OFS1)<br>VR516 (QUAD)<br>VR517 (HUE. OFS2) |
| Step 1.<br>MACHINE CONDITION   |      |                                 | Refer to SET UP Conditions at the beginning<br>of this SECTION (ENCODER - W2).                         |              |   |
| Step 2.<br><br>1. VR517 : CENTRE POSITION<br>(FOR USER VR)<br><br>2. Adjust VR209/VR507/VR515/VR516 so<br>that each of the vectors phase and<br>levels are in the 2% Box of the<br>vector scope. |      |                                 | VIDEO OUT 2<br><br> |              |   |

# 9-18. COMPONENT Y/C TIMING ADJUSTMENT

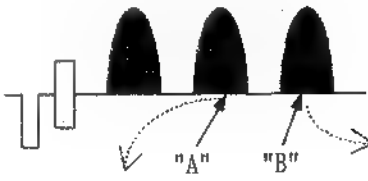
( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|--|------|---------------------------------|---|--------------|--|
| COMPONENT<br>Y OUT<br>Pr OUT   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE<br>OR<br>W.F.M.  | -----        | VR213 (Y/Pr)<br>Y/C TIMING PRESET VR<br>(on Front Sub Panel)<br>Y/C TIMING MANUAL VR<br>(on Front Sub Panel)<br>VR211 (Y/Pb) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>Set the Y/C DELAY SW on the Front Sub Panel to MANUAL mode.</li> <li>SCOPE CH1 : COMPONENT Y OUT (Ref.)<br/>SCOPE CH2 : COMPONENT Pb OUT</li> <li>Adjust VR211 so that centre of range which be able to be control by Y/C DELAY MANUAL VR, is Y/Pb timing 0sec. point.</li> <li>Set the Y/C DELAY SW on the Front Sub Panel to PRESET mode.</li> <li>Adjust the Y/C DELAY PRESET VR (VR213) on the Front Sub Panel so that Y/Pb timing is <math>0 \pm 10 \text{ nsec}</math>.</li> <li>SCOPE CH1 : COMPONENT Y OUT (Ref.)<br/>SCOPE CH2 : COMPONENT Pr OUT</li> <li>Adjust VR213 so that Y/Pr timing is <math>0 \pm 10 \text{ nsec}</math>.</li> </ol> |      |                                 |  <p>The figure contains two oscilloscope waveform diagrams. The top diagram shows two channels: 'COMPONENT Y OUT' (CH1) and 'COMPONENT Pb OUT' (CH2). The bottom diagram shows 'COMPONENT Y OUT' (CH1) and 'COMPONENT Pr OUT' (CH2). Both diagrams feature a vertical dashed line labeled 'A' and a horizontal dashed line labeled 'B'. The waveforms are expanded, as indicated by the 'EXPAND' arrow. Timing points V1, V2, V3, and V4 are marked on the waveforms. The delay B is indicated as 'B=less than 10 nsec'.</p> |              |  |

# 9-19. COMPOSITE Y/C TIMING ADJUSTMENT

( W2 ENCODER )

| TEST POINT     | MODE | TAPE USED  | M.EQ.               | INPUT SIGNAL | ADJUSTMENT                 |
|----------------|------|--|---------------------|--------------|----------------------------|
| VIDEO 2<br>OUT | PLAY | ALIGNMENT<br>TAPE<br>PULSE & BAR<br>(Y/C TIMING) | WAVEFORM<br>MONITOR | -----        | VR207 (Y/U)<br>VR208 (Y/V) |

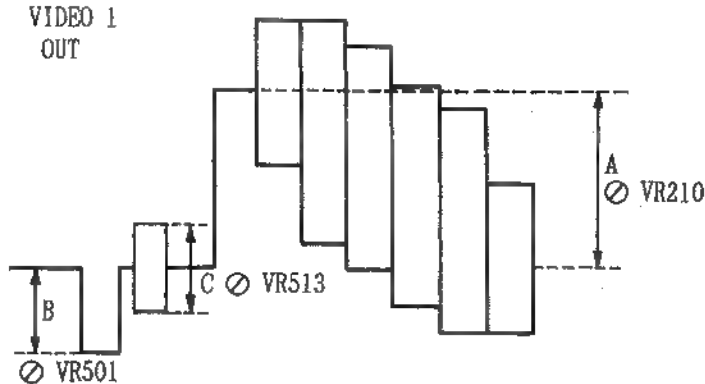


Adjust VR208 so the "A" portion is flat

Adjust VR207 so the "B" portion is flat

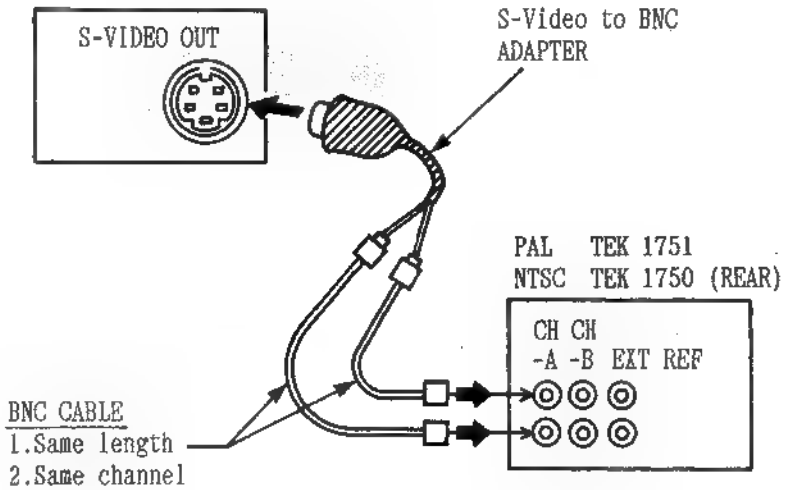
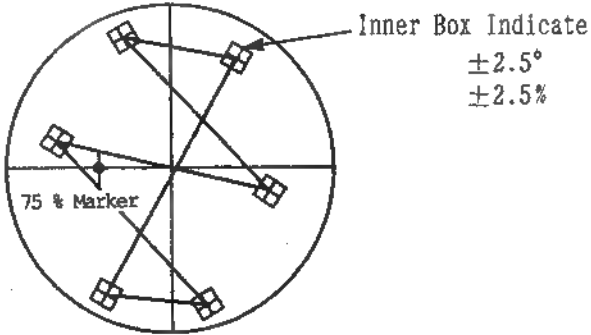
# 9-20. VIDEO 1 OUTPUT LEVEL CONFIRMATION

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                               | M.EQ.  | INPUT SIGNAL | ADJUSTMENT  |
|--|------|---|--|--------------|---|
| VIDEO 1<br>OUT   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR<br>100% | OSCILLOSCOPE<br><br>(with 75Ω<br>termination)  | -----        | VR210 (SYNC G.)<br>VR501 (VIDEO G.)<br>VR513 (BURST G.) |
| Step 1.<br>MACHINE CONDITION   |      |   | Refer to SET UP Conditions at the beginning<br>of this SECTION (ENCODER - W2).                             |              |   |
| Step 2.<br><br>1. Confirm the following specifications.<br><br>1) VIDEO LEVEL (A) = $0.7 \pm 0.01V_{p-p}$<br>2) SYNC LEVEL (B) = $0.3 \pm 0.006V_{p-p}$<br>3) BURST LEVEL (C) = $0.3 \pm 0.004V_{p-p}$<br><br>2. If it is not within specification,<br>readjust VR210, VR501, VR513 (9-6<br>COMPOSITE SYNC LEVEL, 9-13 VIDEO 2<br>OUTPUT LEVEL, 9-15 VIDEO BURST LEVEL.) |      |   | VIDEO 1<br>OUT<br><br> |              |   |

# 9-21. Y/C OUT VECTOR ADJUSTMENT (1)

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                               |
|--|------|---------------------------------|--|--------------|--|
| Y/C OUT<br>(S1-VIDEO)  | PLAY | ALIGNMENT<br>COLOUR BAR<br>100% | VECTOR SCOPE   | -----        | VR508 (Y/C C. PHASE)<br>VR509 (Y/C C. G) |
| <p>Step 1. [ CONNECTION ]</p> <ol style="list-style-type: none"> <li>Please use S1-Video to BNC Conversion CONNECTOR (4P→BNC).</li> <li>Connect the vector scope to Y &amp; C Output through the conversion cable as shown in figure.</li> </ol>   |      |                                 |   |              |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>Connect the vector scope to signal generator, and set the vector scope the burst level 100%</li> <li>Reconnect the vector scope to S1-VIDEO OUT on the Rear Panel. (Refer to Step 1.)</li> <li>Adjust VR508 and VR509 so that the each vector is within the 2% box on the vector scope.</li> </ol> |      |                                 | <p>Y-C OUT</p> <p>⊙ VR508<br/>⊙ VR509</p>  |              |  |

## 9-22. Y/C OUT VECTOR ADJUSTMENT (2)

( W2 ENCODER )

| TEST POINT                        | MODE | TAPE USED                       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT           |
|-----------------------------------|------|---------------------------------|--|--------------|----------------------|
| Y/C OUT<br>(S1-VIDEO)             | PLAY | ALIGNMENT<br>COLOUR BAR<br>100% | OSCILLOSCOPE<br>(with 75 $\Omega$<br>terminator) | -----        | VR514 (Y/C BURST. G) |
| BURST LEVEL = 0.3 $\pm$ 0.004Vp-p |      |                                 |  |              |                      |

## 9-23. VIDEO OUTPUT FREQUENCY RESPONSE ADJUSTMENT

( W2 ENCODER )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT         |
|---|------|----------------------------|---|--------------|--------------------|
| TP502<br>TP 1   | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE  | -----        | VC501 (VIDEO F.R.) |
| Step 1.<br><br>MACHINE CONDITION  |      |                            | 1. Refer to SET UP Conditions at the beginning of this SECTION (ENCODER - W2).<br>2. Connect a jumper wire between F15A (card edge) and GND to cut chroma signal. |              |                    |
| Step 2.<br><br>1. SCOPE CH1 : TP 1 (Ref.)<br>SCOPE CH2 : TP502<br><br>2. Adjust VC501 so that the frequency response at TP502 is the same as it at TP1. |      |                            | ⌀ VC501<br><br>SPECIFICATION<br>TP502 = TP1<br>Frequency Characteristic is same.<br>(0.5MHz = 100%)<br>(4MHz = 100% $\pm$ 3%)                                     |              |                    |

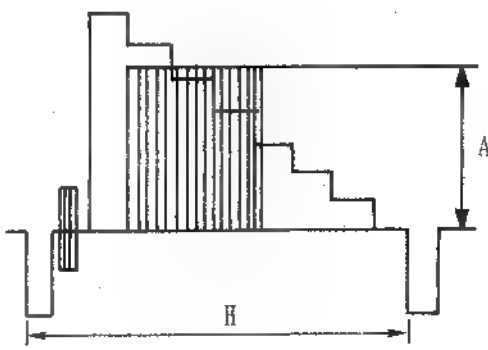
## 9-24. Y OUTPUT FREQUENCY RESPONSE ADJUSTMENT

( W2 ENCODER )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT           |
|---|------|----------------------------|---|--------------|----------------------|
| TP202<br>TP 1   | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE  | -----        | VC201 (Y FREQ. RES.) |
| Step 1.<br><br>1. SCOPE CH1 : TP 1 (Ref.)<br>SCOPE CH2 : TP202<br><br>2. Adjust VC201 so that the frequency response at TP502 is the same as it at TP1. |      |                            | ⊗ VC201<br><br>SPECIFICATION<br>TP202 = TP1<br>Frequency Characteristic is same.<br>(0.5MHz = 100%)<br>(4MHz = 100% ± 3%) |              |                      |

## 9-25. SUPERIMPOSE CHARACTER LEVEL ADJUSTMENT

( W2 ENCODER )

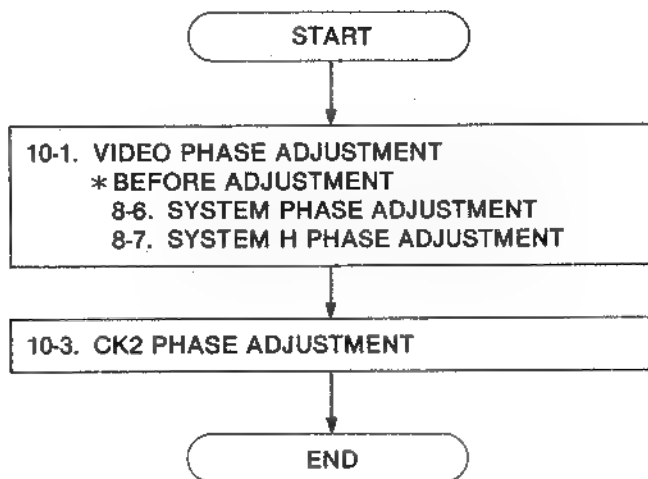
| TEST POINT  | MODE | TAPE USED                       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT          |
|---|------|---------------------------------|--|--------------|---------------------|
| TP503<br>(VIDEO 3 OUT)  | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE   | -----        | VR504 (V3 BLK. DC.) |
| Step 1.<br><br>1. SCOPE : TP503<br><br>2. Check that the Character Level "A"<br>is $1.14 \pm 0.1V_{p-p}$ as shown.<br><br>3. Adjust VR504 so that the DC level<br>of Character is same as DC level<br>of H. Blanking. |      |                                 | TP503<br>⊗ VR504<br><br> |              |                     |

## 10. TBC & SYNC GEN (W1) BOARD (2/2)

### TBC & SYNC GEN. SECTION (2/2) (W1) FLOWCHART FOR AU-65

**\* BEFORE ADJUSTMENT**

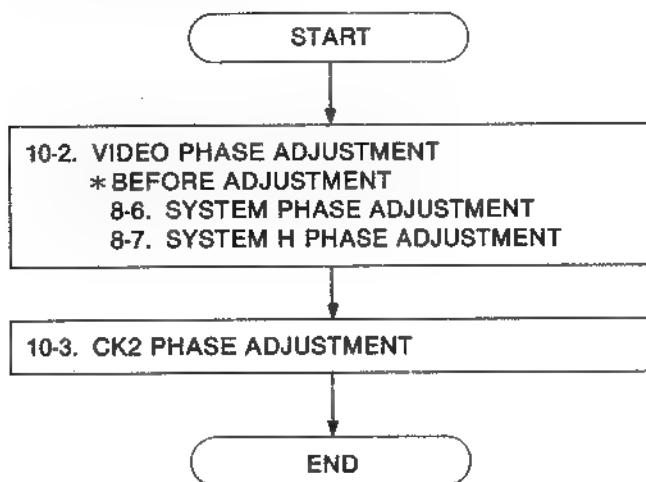
The adjustment with this comment is necessary to adjust after the following adjustments are completed.



### TBC & SYNC GEN. SECTION (2/2) (W1) FLOWCHART FOR AU-63H/AU-63, AU-62H/AU-62

**\* BEFORE ADJUSTMENT**

The adjustment with this comment is necessary to adjust after the following adjustments are completed.





# 10. TBC & SYNC GEN (W1) BOARD (2/2)

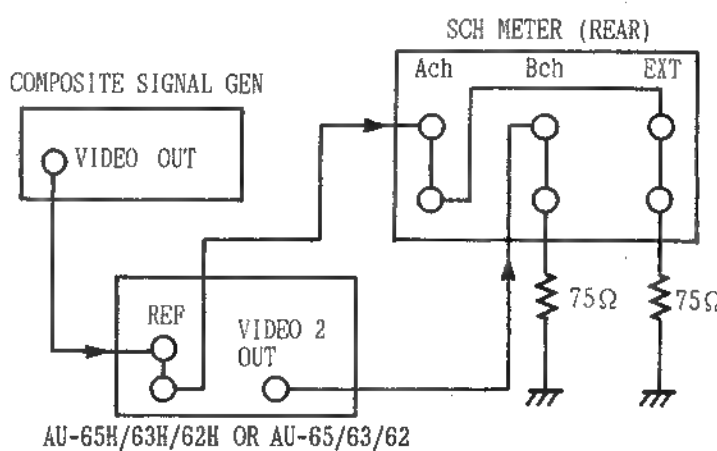
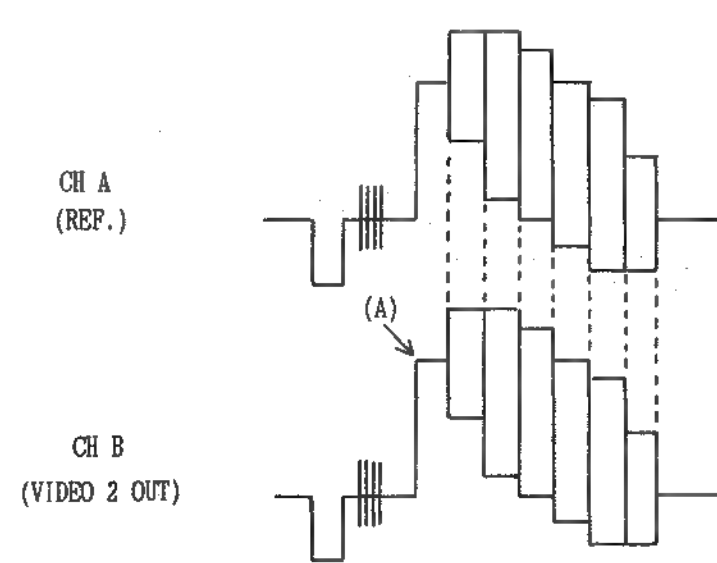
## 10-1. VIDEO PHASE ADJUSTMENT (FOR AU-65H / AU-65)

( W1 TBC & SYNC GEN )

| TEST POINT  | MODE           | TAPE USED | M.EQ.                    | INPUT SIGNAL | ADJUSTMENT                                       |
|---|----------------|-----------|--------------------------|--------------|--|
| VIDEO 2<br>OUT  | E-E<br>(EJECT) | -----     | SCH<br>METER<br>TEK 1751 | LINE IN      | SW203 (V. PHASE COARSE)<br>VR207 (V. PHASE FINE) |
| <p>Step 1.</p> <p>CONNECTION METHOD</p> <p>SCH METER TRIGGER : EXT</p>  |                |           |                          |              |  |
| <p>Step 2.</p> <p>1. Confirm the SYSTEM PHASE Adjustments<br/>in TBC &amp; SYNC GEN (W1) 1/2 section.</p>   |                |           |                          |              |  |
| <p>Step 3.</p> <p>1. Confirm that the VIDEO phase of VIDEO 2<br/>OUTPUT (B ch of WFM Monitor) is same as<br/>VIDEO phase of REF. VIDEO (A ch of WFM<br/>Monitor).</p> <p>2. If it is not, adjust SW203 and VR207 so<br/>that the VIDEO phase of VIDEO 2 OUTPUT<br/>(Bch of WFM Monitor) and the REF. VIDEO<br/>(A ch of WFM Monitor) are the same<br/>phase as shown.</p> <p>Note:<br/>Don't check (A) portion, because this<br/>edge is made by blanking circuit.<br/>So, check other portion.</p> |                |           |                          |              |  |

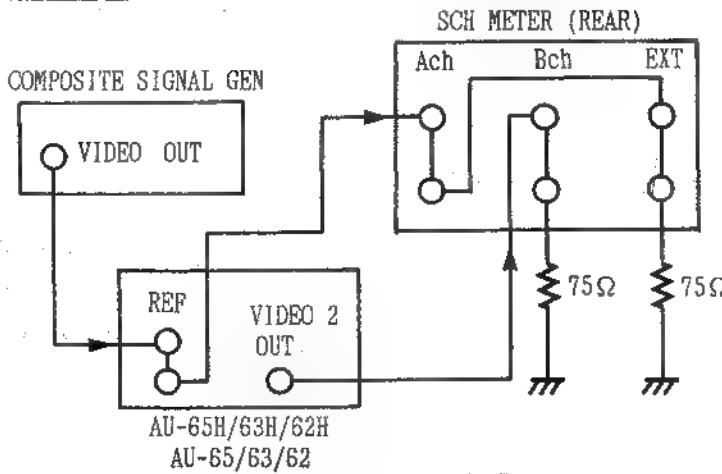
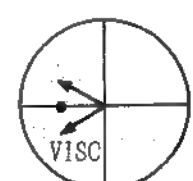
# 10-2. VIDEO PHASE ADJUSTMENT (FOR AU-63H/62H and AU-63/62)

( W1 TBC & SYNC GEN )

| TEST POINT   | MODE | TAPE USED                 | M.EQ.  | INPUT SIGNAL                | ADJUSTMENT                                       |
|--|------|---------------------------|--|-----------------------------|--|
| VIDEO 2 OUT  | PLAY | ALIGNMENT TAPE COLOUR BAR | SCH METER<br>TEK 1751  | SCH ADJ. FIXTURE TO REF. IN | SW203 (V. PHASE COARSE)<br>VR207 (V. PHASE FINE) |
| Step 1.<br><br>CONNECTION METHOD<br><br>SCH METER TRIGGER : EXT  |      |                           |    |                             |  |
| Step 2.<br><br>1. Confirm the SYSTEM PHASE Adjustments in TBC & SYNC GEN (W1) 1/2 section.   |      |                           |  |                             |  |
| Step 3.<br><br>1. Confirm that the VIDEO phase of VIDEO 2 OUTPUT (B ch of WFM Monitor) is same as VIDEO phase of REF. VIDEO (A ch of WFM Monitor).<br>2. If it is not, adjust SW203 and VR207 so that the VIDEO phase of VIDEO 2 OUTPUT (Bch of WFM Monitor) and the REF. VIDEO (A ch of WFM Monitor) are the same phase as shown.<br><br>Note:<br>1. Don't check (A) portion, because this edge is made by blacking circuit. So, check other portion.<br>2. If the VIDEO phase is not same perfectly, adjust the average is the same. |      |                           |  |                             |  |

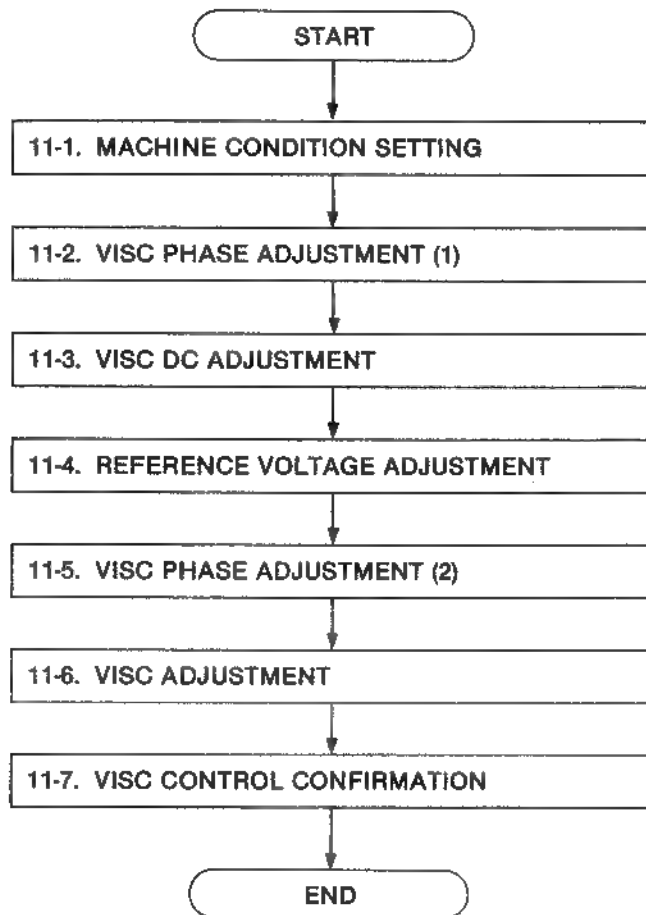
# 10-3. CK 2 PHASE ADJUSTMENT

( W1 TBC & SYNC GEN )

| TEST POINT                   | MODE          | TAPE USED  | M.EQ.   | INPUT SIGNAL              | ADJUSTMENT                               |
|------------------------------|---------------|------------|---|---------------------------|--|
| VIDEO 2 OUT                  | SELF REC/PLAY | BLANK TAPE | VECTOR SCOPE  | COMPOSITE 100% COLOUR BAR | VR207 (CK2 PHASE)<br>SW7 (VISC BLANK SW) |
| Step 1.<br>MACHINE CONDITION |               |            | SW7 (on W1) : OFF   |                           |  |
| Step 2.<br>CONNECTION METHOD |               |            |    |                           |  |
| Step 3.                      |               |            | <p>1. Make a recording for a few minutes and play back the just recorded portion.</p> <p>2. Adjust VR207 so that the VISC signal phase is centre of Burst axis. (<math>0^\circ \pm 2^\circ</math>)</p> <p>3. SW7 : ON</p> <p>Note: This adjustment should be always completed after completing VISC phase adjustment (Item 13-18) of DECODER W4 board.</p>  |                           |  |

## 11. ENCODER (W2) BOARD (2/2) — VISC CONTROL SECTION

### VISC CONTROL SECTION (2/2) (W2) FLOWCHART FOR ALL MODELS



## 11. ENCODER (W2 BOARD (2/2)

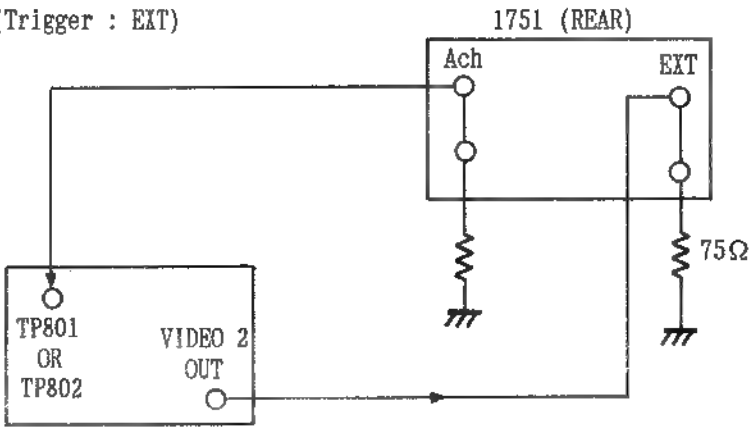
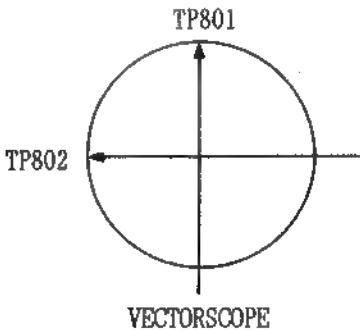
### — VISC CONTROL SECTION —

#### 11-1. MACHINE CONDITION SETTING

|  |       |                 |
|--|-------|-----------------|
| 1. CF SELECT SW ( on Front Sub Panel )               | ----- | 8F              |
| 2. TAPE/EE SELECT ( on Pull Out Drawer )             | ----- | EE              |
| 3. SYNC SELECT SW ( on Front Sub Panel )             | ----- | AUTO            |
| 4. COMPONENT Y/Pr/Pb LEVEL VR ( on Pull Out Drawer ) | ---   | DETENT POSITION |
| 5. VIDEO LEVEL VR                                    | ----- | DETENT POSITION |
| 6. SET UP LEVEL VR                                   | ----- | DETENT POSITION |
| 7. CHROMA LEVEL VR                                   | ----- | DETENT POSITION |
| 8. HUE VR  | ----- | DETENT POSITION |

## 11-2. VISC PHASE ADJUSTMENT (1)

( W2 ENCODER )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL                    | ADJUSTMENT            |
|--|------------------|------------|---|---------------------------------|-----------------------|
| TP801<br>TP802   | SELF<br>REC/PLAY | BLANK TAPE | VECTORSCOPE   | COMPOSITE<br>100%<br>COLOUR BAR | VR800 (VISC $\phi$ 1) |
| Step 1.<br>MACHINE CONDITION   |                  |            | SW800 (on W2) : OFF (VISC CONT SW)<br>SW801 (on W2) : OFF (VISC ANALOGUE CONT SW)   |                                 |                       |
| Step 2.<br><br>CONNECTION METHOD   |                  |            | VECTORSCOPE<br>(Trigger : EXT)<br><br> |                                 |                       |
| Step 3.<br><br>1. Make a recording for a few minutes and play back the just recorded portion.<br>2. Connect the vectorscope to TP801 and set the vectorscope to 12 o'clock position.<br>3. Re-connect the vectorscope to TP802 and adjust VR800 so that the phase at TP802 comes to 9 o'clock position.<br><br>Note: This adjustment should be always completed after completing VISC phase adjustment (Item 13-18) of DECODER W4 board. |                  |            | VR800<br><br>                         |                                 |                       |

# 11-3. VISC DC ADJUSTMENT

( W2 ENCODER )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL                    | ADJUSTMENT       |
|--|------------------|------------|---|---------------------------------|------------------|
| TP803  | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE  | COMPOSITE<br>100%<br>COLOUR BAR | VR802 (VISC. DC) |
| Step 1.<br><br>MACHINE CONDITION   |                  |            | SW800 (on W2) : OFF (VISC CONT SW)<br>SW801 (on W2) : OFF (VISC ANALOGUE CONT SW) |                                 |                  |
| Step 2.<br><br>SCOPE : TP803<br><br>1. Make a recording for a few minutes<br>and play back the just recorded<br>portion.<br>2. Adjust VR802 so that the reading of<br>DC voltage is $0 \pm 0.005V$ .<br><br>Note: This adjustment should be always<br>completed after completing VISC<br>phase adjustment (Item 13-18) of<br>DECODER W4 board. |                  |            | ⊗ VR802<br><br>SPECIFICATION : $0 \pm 0.005V$ DC                                  |                                 |                  |

# 11-4. REFERENCE VOLTAGE ADJUSTMENT

( W2 ENCODER )

| TEST POINT  | MODE             | TAPE USED                 | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT        |
|---|------------------|---------------------------|--|---------------------------------|-------------------|
| SW801   | SELF<br>REC/PLAY | ALIGNMENT<br>TAPE<br>VISC | OSCILLOSCPE<br>AND<br>VECTORSCOPE  | COMPOSITE<br>100%<br>COLOUR BAR | VR803 (REF. VOLT) |
| Step 1.<br>MACHINE CONDITION  |                  |                           | SW800 (on W2) : OFF (VISC CONT SW)   |                                 |                   |
| Step 2.<br><br>1. Make a recording for a few minutes<br>and play back the just recorded<br>portion.<br>2. Adjust VR803 so that the voltage in<br>difference between leads of SW801<br>becomes $0 \pm 0.005V$ .<br>3. Confirm that the phase of VISC is<br>not changed even if the SW801 is<br>on and off.<br><br>Note: This adjustment should be always<br>completed after completing VISC<br>phase adjustment (Item 13-18) of<br>DECODER W4 board. |                  |                           | <div>⊗ VR803</div> <div>SPECIFICATION : <math>0 \pm 0.005V</math> DC</div> |                                 |                   |



# 11-5. VISC PHASE ADJUSTMENT (2)

( W2 ENCODER )

| TEST POINT  | MODE             | TAPE USED  | M.EQ.        | INPUT SIGNAL                    | ADJUSTMENT             |
|-------------|------------------|------------|--------------|---------------------------------|------------------------|
| VIDEO 2 OUT | SELF<br>REC/PLAY | BLANK TAPE | VECTOR SCOPE | COMPOSITE<br>100%<br>COLOUR BAR | VR801 (VISC. $\phi$ 2) |

Note:

Confirm the Adjustment of W1 and W2 (1/2), completeness.

Step 1.

MACHINE CONDITION

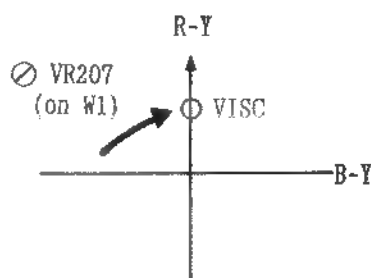
1. Refer to Machine Condition at the beginning of this section. (W2-ENCODER 2/2)
2. SW800 (on W2) → OFF (VISC CONT SW)  
SW801 (on W2) → ON (VISC ANALOGUE CONT SW)  
SW 7 (on W1) → OFF (VISC BLANK SW)

Step 2.

1. Make a recording for a few minutes and play back the just recorded portion.
2. Check and mark VR207 on the W1 P.C.Board, and set so that the VISC phase is on the R-Y axis upper portion.

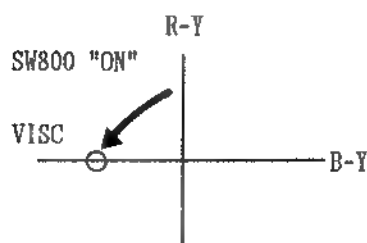
Note: This adjustment should be always completed after completing VISC phase adjustment (Item 13-18) of DECODER W4 board.

OSCILLOSCOPE : DELAY MODE



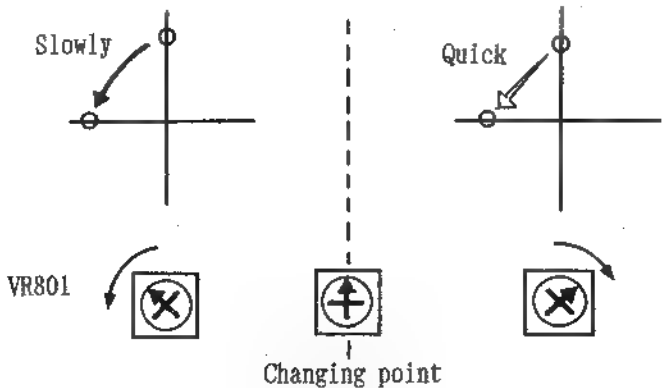
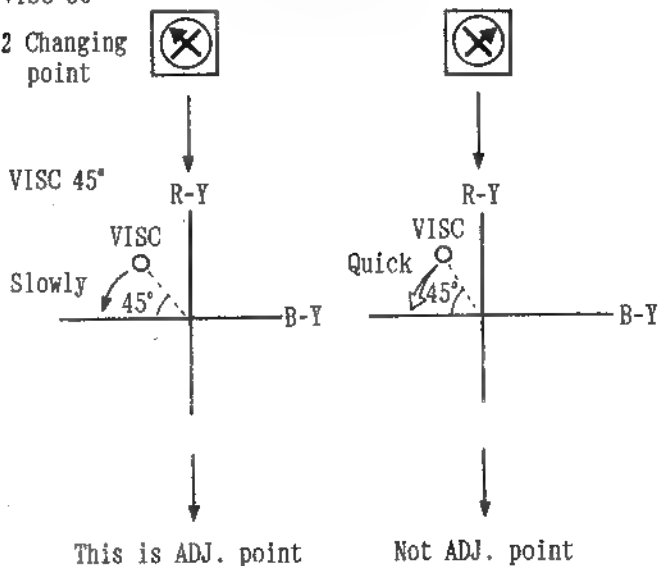
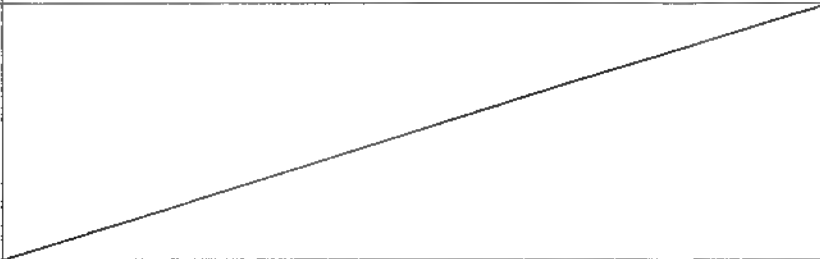
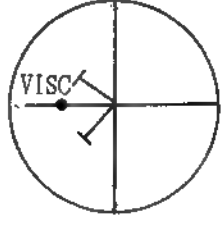
Step 3.

1. Observe the vector scope the VISC phase is pulled in the horizontal axis between the burst when SW800 is "ON" mode.
2. Check the moving speed of VISC with SW800 "ON". It has 2 pattern.



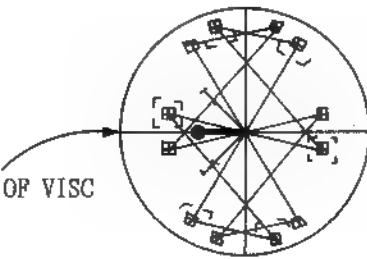
VISC MOVING PATTERN

- (1) Pulling in VISC is slowly by Analog Control.
- (2) Pulling in VISC is quick by Digital Control.

|   |   |
|---|---|
| <p>Step 4.</p> <ol style="list-style-type: none"> <li>1. When VR801 is turned, changing point of moving pattern is appeared in range of VR801.</li> <li>2. Adjust VR801 so that the VR position is changing point of VISC moving pattern.</li> </ol> <p>Note:<br/>In this adjustment, repeat SW800 "ON" and "OFF".</p>  | <p>SW800 → ON</p>                         |
| <p>Step 5.</p> <p>If the changing point of moving pattern is 2 in the range of VR801, adjust this procedure as following.</p> <ol style="list-style-type: none"> <li>1. Set the VR801 (on W2) changing points of moving pattern.</li> <li>2. Reset the VR207 on W1 P.C.Board so that VISC phase is 45°.</li> <li>3. VR801 have 2 changing points (A) and (B) at VISC 90° condition. When VISC is 45° and SW800 is "ON", one is pulled in U axis slowly but another is quick it.</li> <li>4. Adjustment position VR is changing point at VISC 90° and slowly pulling as VISC 45°.</li> </ol> | <p>VISC 90°</p> <p>2 Changing point</p>  |
| <p>Step 6.</p> <ol style="list-style-type: none"> <li>1. Set VR207 on W1 P.C.Board so that VISC phase is R-Y under side.</li> <li>2. Confirm the function of VISC control is same of Step 3, 4 and 5.</li> </ol>  |   |
| <p>Step 7.</p> <ol style="list-style-type: none"> <li>1. After adjustment, set SW800 "OFF" mode.</li> <li>2. Adjust VR207 on W1 P.C.Board so that the VISC signal is horizontal axis (B-Y) between the burst.</li> </ol>  | <p>SW800 → OFF</p> <p>⊙ VR207</p>      |
| <p>Step 8.</p> <ol style="list-style-type: none"> <li>1. Reset SW800 "ON" mode.</li> <li>2. Reset SW7 on W1 P.C.Board "ON" mode.</li> </ol>   | <p>SW800 (on W2) → ON</p> <p>SW 7 (on W1) → ON</p>  |

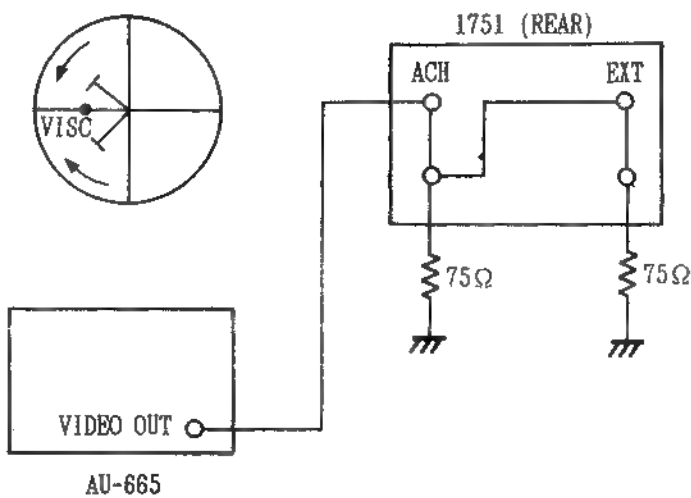
# 11-6. VISC ADJUSTMENT

( W2 ENCODER )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT       |
|--|------------------|------------|--|---------------------------------|------------------|
| VIDEO 2<br>OUT   | SELF<br>REC/PLAY | BLANK TAPE | VECTORSCOPE  | COMPOSITE<br>100%<br>COLOUR BAR | VR802 (VISC. DC) |
| Step 1.<br>MACHINE CONDITION   |                  |            | SW800 (on W2) : ON (VISC CONT SW)<br>SW801 (on W2) : ON (VISC ANALOGUE CONT SW)  |                                 |                  |
| Step 2.<br><br>VECTORSCOPE : VIDEO 2 OUT<br><br>1. Make a recording for a few minutes<br>and play back the just recorded<br>portion.<br>2. Adjust VR802 so that the vector aligns<br>with horizontal axis between the burst.<br><br>Note: This adjustment should be always<br>completed after completing VISC<br>phase adjustment (Item 13-18) of<br>DECODER W4 board. |                  |            | ⌀ VR802<br><br><br><br>PHASE DIFFERENCE BETWEEN BURST AND VISC = $0 \pm 5^\circ$ |                                 |                  |

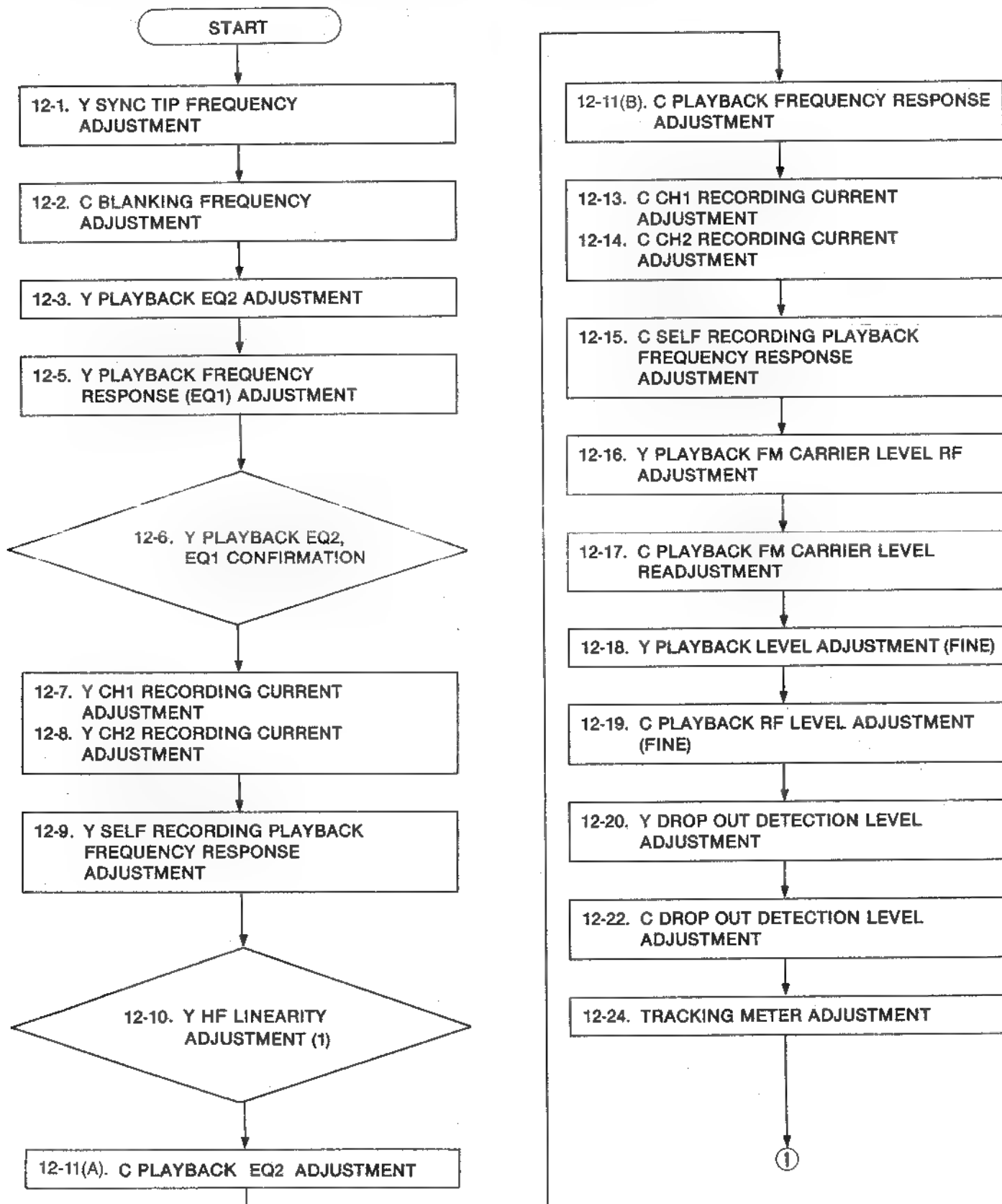
# 11-7. VISC CONTROL CONFIRMATION

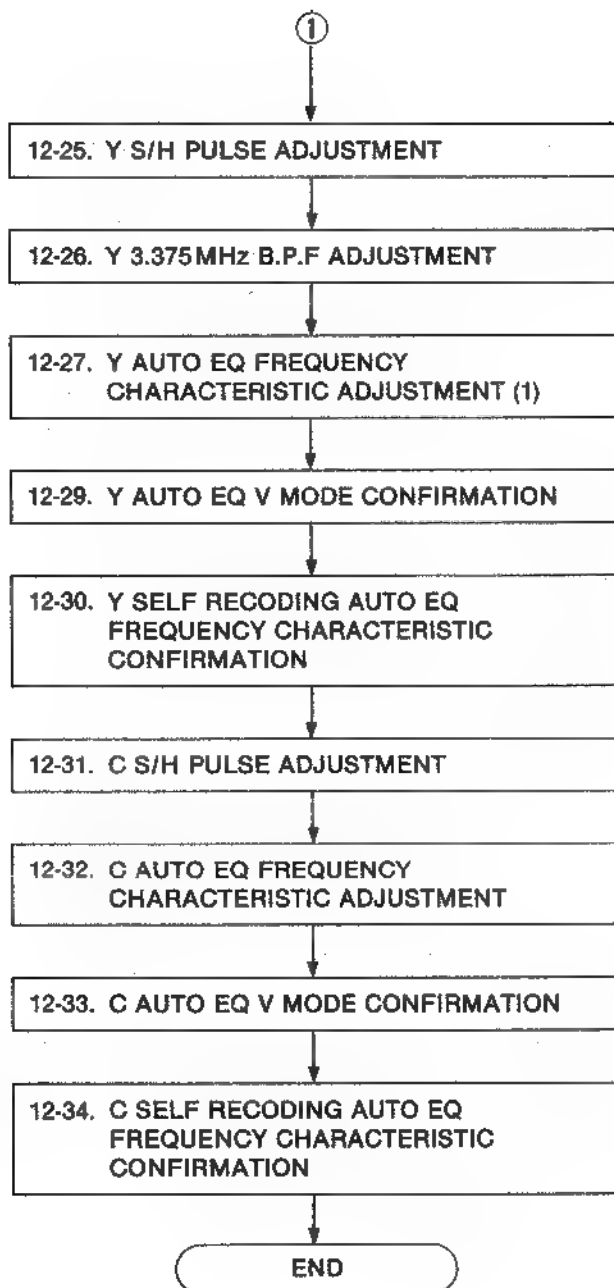
( W2 ENCODER )

| TEST POINT                   | MODE             | TAPE USED  | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT                   |
|------------------------------|------------------|------------|--|---------------------------------|------------------------------|
| VIDEO 2<br>OUT               | SELF<br>REC/PLAY | BLANK TAPE | VECTOR<br>SCOPE  | COMPOSITE<br>100%<br>COLOUR BAR | VR206 (on W1)<br>(CK2 PHASE) |
| Step 1.<br>MACHINE CONDITION |                  |            | SW800 (on W2) : ON (VISC CONT SW)<br>SW801 (on W2) : ON (VISC ANALOGUE CONT SW)  |                                 |                              |
| Step 2.<br>CONNECTION METHOD |                  |            |  <p>1. Make a recording for a few minutes and play back the just recorded portion.</p> <p>2. Set the SW800 to off and set the CK2 phase VR206 so that the VISC phase is -120° apart from burst phase. Then confirm that the VISC phase aligns to horizontal axis between the burst when turning SW800 on.</p> <p>3. Next, set the SW801 to off and set the CK2 phase VR206 so that the VISC phase is +120° apart from burst phase. Then confirm that the VISC phase aligns to horizontal axis between the burst when turning SW800 on.</p> <p>4. If it does not work correctly, repeat the CK2 phase adjustment (VR206).</p> <p>Note: This adjustment should be always completed after completing VISC phase adjustment (Item 13-18) of DECODER W4 board.</p> |                                 |                              |

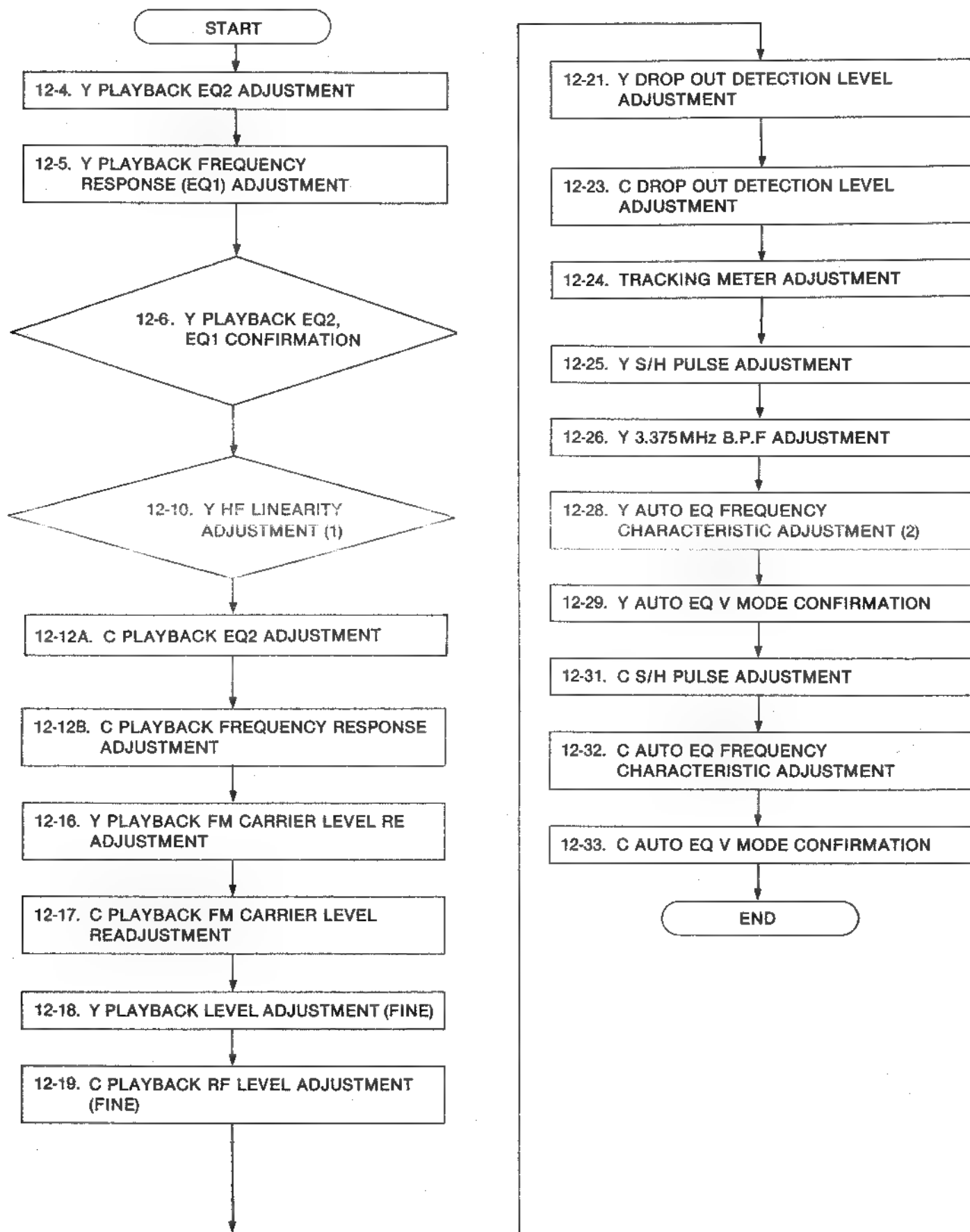
## 12. MODULATION & DEMODULATION (W3) BOARD (2/2)

### MODULATION & DEMODULATION SECTION (2/2) (W3) FLOWCHART FOR AU-65H/AU-65

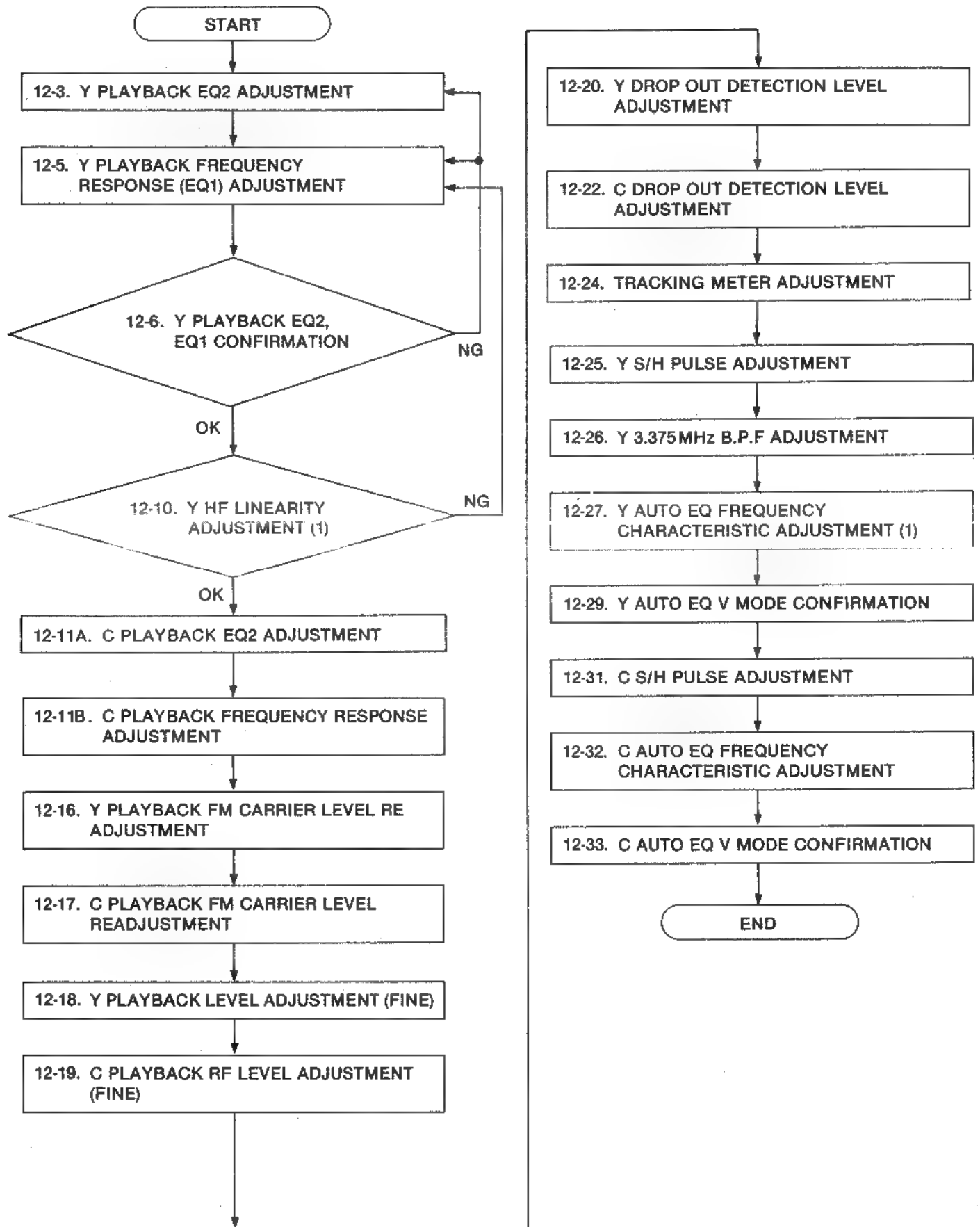




# MODULATION & DEMODULATION SECTION (2/2) (W3) FLOWCHART FOR AU-63H/AU-63



# MODULATION & DEMODULATION SECTION (2/2) (W3) FLOWCHART FOR AU-62H/AU-62



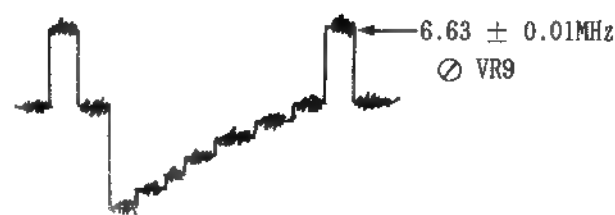


## 12. MODULATION & DEMODULATION (W3) BOARD (2/2)

### 12-1. Y SYNC TIP FREQUENCY ADJUSTMENT

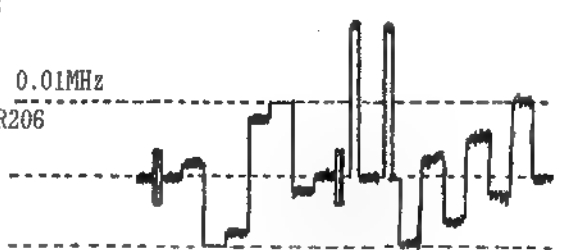
(FOR AU-65H / AU-65)

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL            | ADJUSTMENT             |
|--|----------------|-----------|---|-------------------------|------------------------|
| TP309<br>TP316   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>COLOUR BAR | VR9 (Y SYNC TIP FREQ.) |
| Step 1.<br><br>1. Inject Sinewave Signal to TP316<br>2. Set Sinewave Generator Output<br>Frequency Setting To :      |                |           | 6.63 MHz $\pm$ 0.01 MHz (0.2 ~ 0.4Vp-p)   |                         |                        |
| Step 2.<br><br>1. Adjust VR9 so that frequency beat<br>noise is nullified at sync tip<br>portion as shown in figure. |                |           | <div style="text-align: center;"> <p>TP309</p>  </div> |                         |                        |

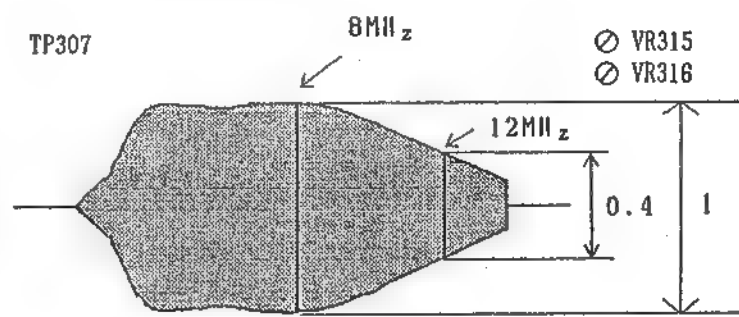
## 12-2. C BLANKING FREQUENCY ADJUSTMENT (FOR AU-65H / AU-65)

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL         | ADJUSTMENT          |
|---|----------------|-----------|---|----------------------|---------------------|
| TP706<br>TP711  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | Y/CTCM<br>COLOUR BAR | VR206 (C BLK FREQ.) |
| Step 1.<br><br>1. Inject Sinewave Signal to TP711<br>2. Set Sinewave Generator Output<br>Frequency Setting To :                                     |                |           | 5.4 MHz $\pm$ 0.01 MHz (0.2 ~0.4Vp-p)   |                      |                     |
| Step 2.<br><br>1. SCOPE : TP706<br>2. Adjust VR206 so that frequency beat<br>noise is nullified at cyan portion of<br>Pr signal as shown in figure. |                |           | TP706<br><br>5.4 $\pm$ 0.01MHz<br>Ⓞ VR206  |                      |                     |

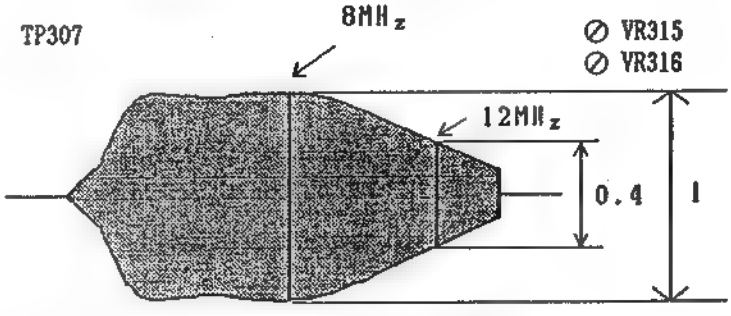
## 12-3. Y PLAYBACK EQ2 ADJUSTMENT (FOR AU-62H/65H and AU-62/65)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                              | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|---|------|--|--|--------------|--|
| TP307<br>F28-AB TERMINAL<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>12MHz<br>RF SWEEP | OSCILLOSCOPE   | -----        | VR315<br>( Y PB EQ2 R/P1 )<br><br>VR316<br>( Y PB EQ2 R/P2 ) |
| 1. SW304 (on W3) : OFF<br><br>2. SCOPE CH1 : TP307<br>SCOPE CH2 : F28-AB TERMINAL<br>(Trigger)<br>3. Adjust VR315 and VR316 (CH1 and CH2)<br>RF signals For :<br>8MHz Level = 100%<br>12MHz Level = 40% $\pm$ 5%<br>4. SW304 (on W3) : ON |      |  | TP307  <p>8MHz : 12MHz = 100 : 40 <math>\pm</math> 5</p> |              |  |

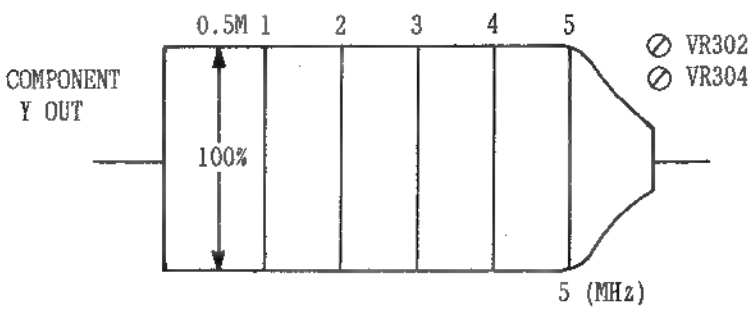
# 12-4. Y PLAYBACK EQ2 ADJUSTMENT (FOR AU-63H / AU-63)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                              | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|---|------|--|--|--------------|--|
| TP307<br>F28-AB<br>EDGE CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>12MHz<br>RF SWEEP | OSCILLOSCOPE   | -----        | VR313<br>( Y PB EQ2 AT1 )<br><br>VR314<br>( Y PB EQ2 AT2 ) |
| 1. SW304 : OFF<br><br>2. SCOPE CH1 : TP307<br>SCOPE CH2 : F28-AB (Trigger)<br><br>3. Adjust VR313 and VR314 (CH1 and CH2)<br>RF signals For :<br>8MHz Level = 100%<br>12MHz Level = $40\% \pm 5\%$<br><br>4. SW304 : ON |      |  |  <p>8MHz : 12MHz = 100 : <math>40 \pm 5</math></p> |              |  |

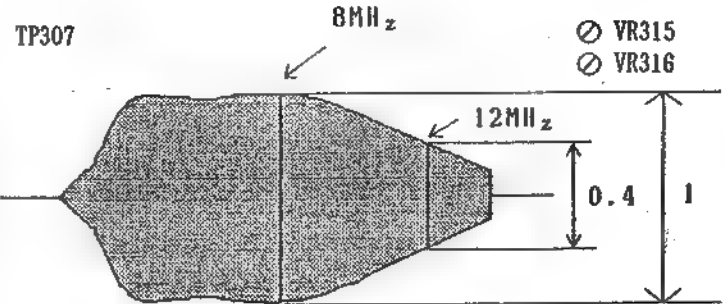
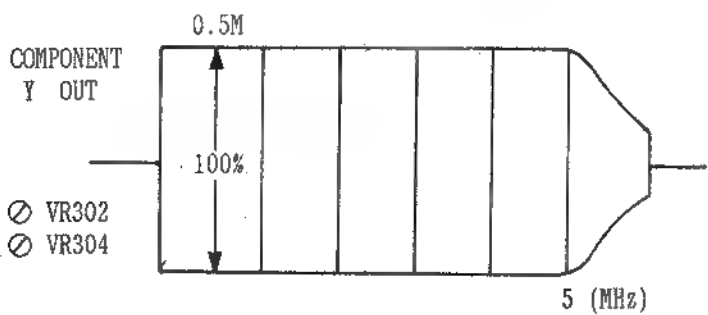
# 12-5. Y PLAYBACK FREQUENCY RESPONSE (EQ1) ADJUSTMENT (FINE)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                               |
|--|------|----------------------------|---|--------------|--|
| COMPONENT<br>Y OUT<br>F28-AB<br>TERMINAL<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | WAVE FORM<br>MONITOR<br>(TEK 1751)  | -----        | VR302<br>(R/P CH2)<br>VR304<br>(R/P CH1) |
| 1. SW304 : ON<br><br>2. SCOPE CH1 : COMPONENT Y OUT<br>SCOPE CH2 : F28-AB (Trigger)<br><br>3. Adjust VR302 and VR304 so that the<br>frequency response becomes For :<br>0.5MHz = 100%<br>5.0MHz = $95\% \pm 5\%$ |      |                            |  <p>REFERENCE : 0.5MHz = 100%<br/>SPEC : 5MHz = <math>95 \pm 5\%</math></p> |              |  |


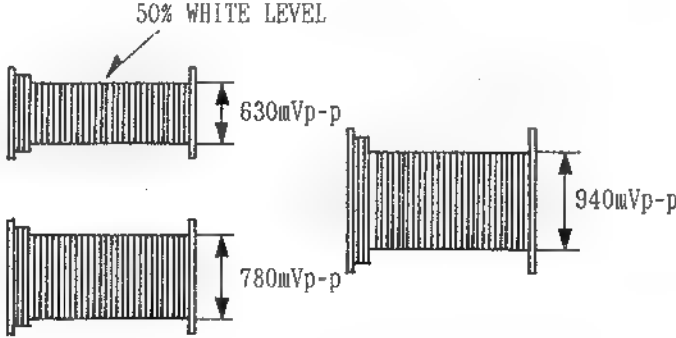
# 12-6. Y PLAYBACK EQ2·EQ1 CONFIRMATION

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED   | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|--|------|---|--|--------------|------------|
| TP307<br>COMPONENT<br>Y OUT<br>F28·AB<br>TERMINAL<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>RF SWEEP<br>&<br>VIDEO SWEEP | WAVE FORM<br>MONITOR<br>(TEK1751)<br>OR<br>OSCILLOSCOPE  | -----        | -----      |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>SW304 : OFF</li> <li>SCOPE CH1 : TP307<br/>SCOPE CH2 : F28·AB (Trigger)</li> <li>Play back the RF sweep portion of the Alignment Tape.</li> <li>Confirm that the CH1 and CH2 RF signals becomes For :<br/>8MHz Level = 100%<br/>12MHz Level = 40%</li> <li>If it is not, readjust VR315/316 (AU-65H/62H and AU-65/62), VR313/314 (AU-63H/63).</li> <li>SW304 : ON</li> </ol> |      |   | <p>TP307</p>  <p>8MHz : 12MHz = 100 : 40</p>   |              |            |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SW304 : ON</li> <li>SCOPE CH1 : COMPONENT Y OUT<br/>SCOPE CH2 : F28·AB (Trigger)</li> <li>Play back the Sweep portion of the Alignment Tape.</li> <li>Confirm that the frequency response becomes For :<br/>0.5MHz = 100%<br/>5MHz = 95% ± 5%</li> <li>If it is not, readjust VR302 and VR304.</li> </ol>  |      |   | <p>COMPONENT<br/>Y OUT</p>  <p>REFIRENCE : 0.5MHz = 100%<br/>SPEC : 5MHz = 95 ± 5%</p> |              |            |

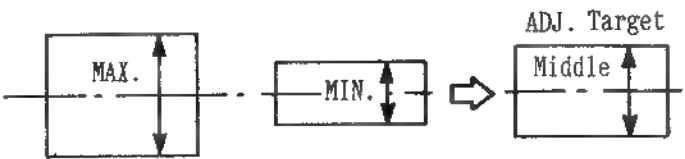
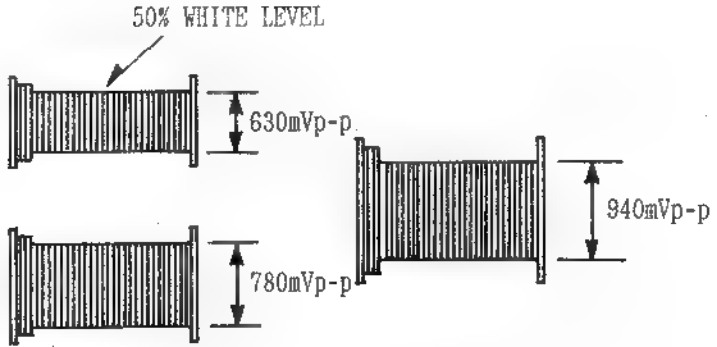
# 12-7. Y CH1 RECORDING CURRENT ADJUSTMENT (FOR AU-65H / AU-65)

( RA / HA BOARD )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL           | ADJUSTMENT   |
|--|------------------|------------|---|------------------------|--|
| TP3<br>(on RA/HA)<br>TP201<br>(on RA/HA)<br>F28-AB (on W3)<br>(Trigger)  | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE  | COMPONENT<br>50% WHITE | VC1 (Y CH1 REC EQ)<br>(on RA/HA BOARD)<br>VR3 (Y CH1 CURR)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>VR3 : CENTRE</li> <li>Place the unit in the recording mode.</li> <li>SCOPE CH1 : TP3 (on RA/HA)<br/>SCOPE CH2 : F28-AB (Trigger) (on W3)</li> <li>During the recording mode, turn VC1 and measure the maximum level and minimum level.</li> <li>Adjust VC1 for the carrier level becomes middle level as shown.</li> </ol>   |                  |            | <p>TP3<br/>⊗ VC1</p>    |                        |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SCOPE CH1 : TP3 (on RA/HA)<br/>SCOPE CH2 : F28-AB (Trigger) (W3)</li> <li>Place the unit in the recording mode.</li> <li>Turn VR3 so that the FM Carrier level of 50% White portion becomes 630mVp-p, 780mVp-p and 940mVp-p record about 10 sec. for each level.</li> <li>SCOPE : TP201 (on RA/HA)</li> <li>Play back the just recorded portion.</li> <li>Find the maximum playback level.</li> <li>Set VR3 to maximum playback level point (630mVp-p, 780mVp-p or 940mVp-p) at TP3.</li> </ol> <p>Note:<br/>If the playback maximum level is all the same level (<math>\pm 1.5\%</math>), set VR3 to lower playback level point. (630mVp-p or 780mVp-p)</p> |                  |            | <p>TP3<br/>⊗ VR3</p>  <p>Note:<br/>The reason we record 3 different levels is because the AU-65H/65 don't have a confidence head.</p> |                        |  |

# 12-8. Y CH2 RECORDING CURRENT ADJUSTMENT (FOR AU-65H / AU-65)

( RA / HA BOARD )

| TEST POINT  | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL           | ADJUSTMENT   |
|---|------------------|------------|---|------------------------|--|
| TP4<br>(on RA/HA)<br>TP202<br>(on RA/HA)<br>F33-AB (on W3)<br>(Trigger)   | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE  | COMPONENT<br>50% WHITE | VC2 (Y CH2 REC EQ)<br>(on RA/HA BOARD)<br>VR4 (Y CH2 CURR)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>VR4 : CENTRE</li> <li>Place the unit in the recording mode.</li> <li>SCOPE CH1 : TP4 (on RA/HA)<br/>SCOPE CH2 : F33-AB (Trigger) (on W3)</li> <li>During the recording mode, turn VC2 and measure the maximum level and minimum level.</li> <li>Adjust VC2 for the carrier level becomes middle level as shown.</li> </ol>  |                  |            | <p>TP4<br/>⊗ VC2</p>    |                        |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SCOPE CH1 : TP4 (on RA/HA)<br/>SCOPE CH2 : F33-AB (Trigger) (on W3)</li> <li>Place the unit in the recording mode.</li> <li>Turn VR4 so that the FM Carrier level of 50% White portion becomes 630mVp-p, 780mVp-p and 940mVp-p record about 10 sec. for each level.</li> <li>SCOPE : TP202 (on RA/HA)</li> <li>Play back the just recorded portion.</li> <li>Find the maximum playback level.</li> <li>Set VR4 to maximum playback level point (630mVp-p, 780mVp-p or 940mVp-p) at TP3.</li> </ol> <p>Note:<br/>If the playback maximum level is all the same level (<math>\pm 1.5\%</math>), set VR4 to lower playback level point. (630mVp-p or 780mVp-p)</p> |                  |            | <p>TP4<br/>⊗ VR4</p>  <p>Note:<br/>The reason we record 3 different levels is because the AU-65H/65 don't have a confidence head.</p> |                        |  |

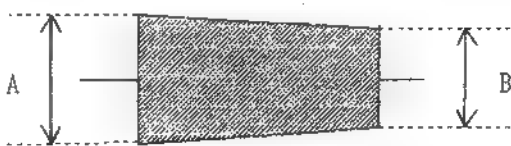
# 12-9. Y SELF RECORDING PLAYBACK FREQUENCY RESPONSE ADJUSTMENT (FOR AU-65H / AU-65)

( RA / HA BOARD )

| TEST POINT   | MODE             | TAPE USED     | M.EQ.   | INPUT SIGNAL                 | ADJUSTMENT   |
|--|------------------|---------------|---|------------------------------|--|
| COMPONENT<br>Y OUT<br>TP3<br>(on RA/HA)<br>TP4<br>(on RA/HA)   | SELF<br>REC/PLAY | BLANK<br>TAPE | OSCILLOSCOPE<br><br>WAVEFORM<br>MONITOR   | COMPONENT<br>60%<br>H. SWEEP | VC1, VR3 (CH1)<br>(on RA/HA BOARD)<br>VC2, VR4 (CH2)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Make a recording.</li> <li>2. Then playback the just recorded portion.</li> <li>3. WFM MONITOR : COMPONENT Y OUT</li> <li>4. Confirm that the Y PB Frequency Response becomes For :<br/>0.5MHz = 100%<br/>5MHz = 95% <math>\pm</math> 5%</li> </ol>   |                  |               | <div data-bbox="746 611 1370 947" data-label="Figure"> </div> <div data-bbox="861 987 1230 1050" data-label="Text"> <p>REF : 0.5MHz = 100%<br/>SPEC : 5MHz = 95% <math>\pm</math> 5%</p> </div>   |                              |  |
| <p>Step 2.</p> <p>If it is not within the specification,<br/>the following method is required.</p> <p>FREQUENCY RESPONSE LEVEL IS TOO HIGH.</p> <ol style="list-style-type: none"> <li>1) SCOPE : TP3 (Y CH1)<br/>TP4 (Y CH2)</li> <li>2) Note the FM Carrier Level at TP3 (CH1) and TP4 (CH2) on RA/HA.</li> <li>3) Turn VC1 (CH1) and VC2 (CH2) slightly to increase the FM Carrier Level at TP3 (CH1) and TP4 (CH2).</li> <li>4) Adjust VR3 (CH1) and VR4 (CH2) so that the FM Carrier Level matches the noted FM Carrier Level in item 2.</li> </ol> |                  |               | <p>FREQUENCY RESPONSE IS TOOL LOW.</p> <ol style="list-style-type: none"> <li>1) SCOPE : TP3 (Y CH1)<br/>TP4 (Y CH2)</li> <li>2) Note the FM Carrier Level at TP3 (CH1) and TP4 (CH2) on RA/HA.</li> <li>3) Turn VC1 (CH1) and VC2 (CH2) slightly to decrease the FM Carrier Level at TP3 (CH1) and TP4 (CH2).</li> <li>4) Adjust VR3 (CH1) and VR4 (CH2) so that the FM Carrier Level matches noted FM Carrier Level in item 2.</li> </ol> |                              |  |
| <p>Step 3.</p> <ol style="list-style-type: none"> <li>1. Finally confirm the Y Self Rec Frequency Response (Step1).</li> </ol>   |                  |               |   |                              |  |

# 12-10. Y HF LINEARITY ADJUSTMENT (1)

( W3 MOD & DEMOD )

| TEST POINT  | MODE             | TAPE USED  | M.EQ.  | INPUT SIGNAL                          | ADJUSTMENT       |
|---|------------------|------------|--|---------------------------------------|------------------|
| COMPONENT<br>Y OUT  | SELF<br>REC/PLAY | BLANK TAPE | WFM/VECTOR<br>MONITOR<br>(TEK 1751)  | COMPOSITE<br>MODULATED RAMP<br>SIGNAL | VR310<br>( EQ4 ) |
| Step 1.<br>WFM MONITOR CONDITION  |                  |            | 1. MODE : WFM mode<br>2. FILTER : 4.43 CHROMA  |                                       |                  |
| Step 2.<br><br>1. WFM MONITOR : COMPONENT Y OUT<br>2. Record the Modulated-Ramp signal for few minutes through the component Y input and playback the just recorded portion.<br>3. Adjust VR310 so that the HF linearity becomes for :<br>A = 100%     B = 100 ± 15%<br>4. Confirm the Y PLAYBACK FREQUENCY RESPONSE (EQ1) ADJUSTMENT (FINE) (12-5).<br>5. If it is not, readjust Section 12-5 and 12-10. |                  |            | <div style="text-align: center;"> <p>COMPONENT Y OUT     ⊗ VR310</p>  <p>A : B = 100 : 100 ± 10</p> </div> |                                       |                  |



**12-11(A) . C PLAYBACK EQ2 ADJUSTMENT**  
(FOR AU-65H/62H and AU-65/62)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                       |
|--|------|--------------------------------|--|--------------|--|
| TP703<br>P28-AB<br>EDGE<br>CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>RF, SWEEP | OSCILLOSCOPE   | -----        | VR712 (C PB EQ2 R/P 1)<br>VR713 (C PB EQ2 R/P 2) |
| 1. SW704 : OFF<br><br>2. SCOPE CH1 : TP703<br>SCOPE CH2 : P28 - AB (Trigger)<br><br>3. Adjust VR712 and VR713 (CH1 and CH2)<br>RF signals For:<br>6MHz Level = 100%<br>10MHz Level = $40 \pm 5\%$<br><br>4. SW704 : ON |      |                                | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>TP703</p> </div> <div> <p>6MHz : 10MHz = 100% : <math>40 \pm 5\%</math></p> </div> </div> |              |  |

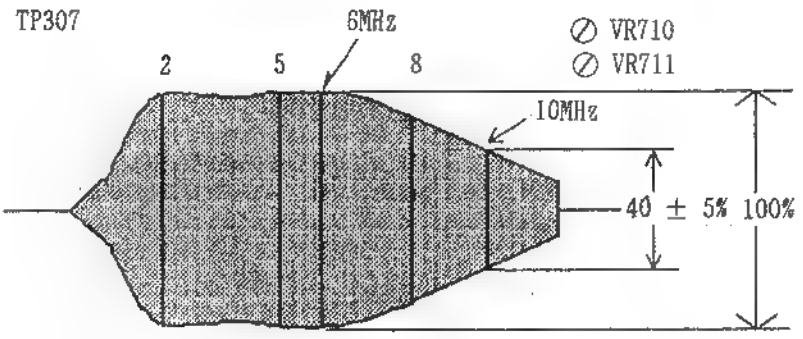
**12-11(B) . C PLAYBACK FREQUENCY RESPONSE**  
**ADJUSTMENT (FINE)**  
(FOR AU-65H/62H and AU-65/62)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                       |
|---|------|----------------------------|---|--------------|--|
| COMPONENT<br>Pr/Pb OUT<br>F33-AB<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | WAVEFORM<br>MONITOR<br>OR OSCILLOSCOPE  | -----        | VR727 (C TERM)<br>VR712 (R/P 1)<br>VR713 (R/P 2) |
| 1. SCOPE CH1 : COMPONENT Pr/Pb OUT<br>SCOPE CH2 : F33-AB (Trigger)<br>2. Adjust VR727 so that the frequency<br>response of the channels average<br>becomes for:<br>0.25MHz = 100%<br>1.5MHz = $95 \pm 5\%$<br>3. If the frequency response is unbalance<br>between CH1 and CH2, adjust VR712 and<br>VR713 so that the frequency response<br>correct between the two channels. |      |                            | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>COMPONENT<br/>Pr/Pb<br/>OUT</p> </div> <div> <p>REF : 0.25MHz = 100%<br/>SPEC : 1.5MHz = <math>95 \pm 5\%</math></p> </div> </div> |              |  |

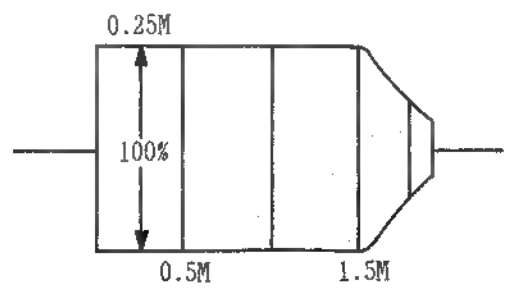
**12-12(A) . C PLAYBACK EQ2 ADJUSTMENT**  
(FOR AU-63H / AU-63)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                   |
|--|------|--------------------------------|---|--------------|--|
| TP703<br>F28-AB<br>EDGE<br>CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>RF, SWEEP | OSCILLOSCOPE  | -----        | VR710 (C PB EQ2 AT1)<br>VR711 (C PB EQ2 AT2) |
| 1. SW704 : OFF<br><br>2. SCOPE CH1 : TP703<br>SCOPE CH2 : F28-AB (Trigger)<br><br>3. Adjust VR710 and VR711 (CH1 and CH2)<br>RF signals For:<br>6MHz Level = 100%<br>10MHz Level = $40 \pm 5\%$<br><br>4. SW704 : ON |      |                                | TP307<br><br>6MHz : 10MHz = 100% : $40 \pm 5\%$ |              |  |

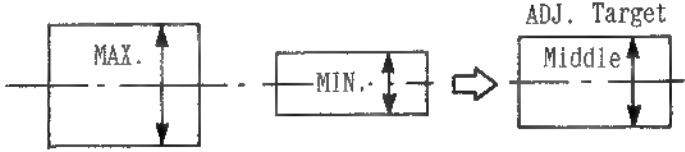
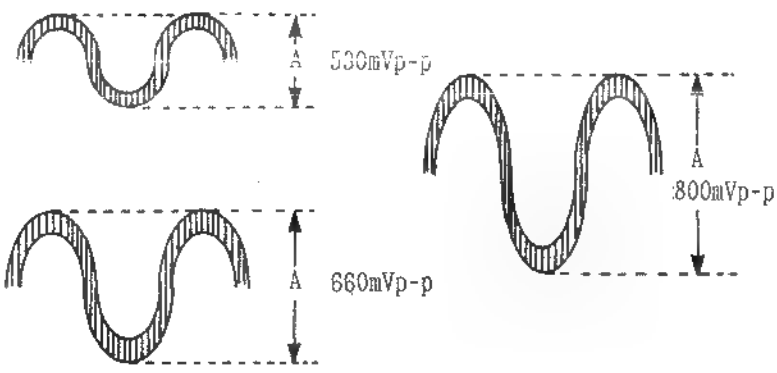
**12-12(B) . C PLAYBACK FREQUENCY RESPONSE  
ADJUSTMENT (FINE)**  
(FOR AU-63H / AU-63)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                   |
|---|------|----------------------------|--|--------------|--|
| COMPONENT<br>Pr/Pb OUT<br>F33-AB<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | WAVEFORM<br>MONITOR<br>(TEK 1751)  | -----        | VR727 (C TERM)<br>VR710 (AT1)<br>VR711 (AT1) |
| 1. SCOPE CH1 : COMPONENT Pr/Pb OUT<br>SCOPE CH2 : F33-AB (Trigger)<br>2. Adjust VR727 so that the frequency<br>response of the channels average<br>becomes for:<br>0.25MHz = 100%<br>1.5MHz = $95 \pm 5\%$<br>3. If the frequency response is unbalance<br>between CH1 and CH2, adjust VR710 and<br>VR711 so that the frequency response<br>correct between the two channels. |      |                            | <br>REF : 0.25MHz = 100%<br>SPEC : 1.5MHz = $95 \pm 5\%$ |              |  |

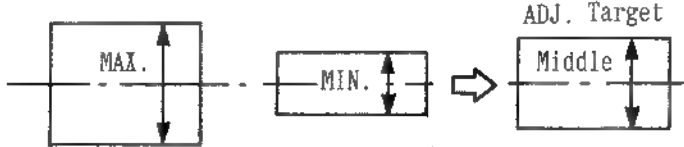
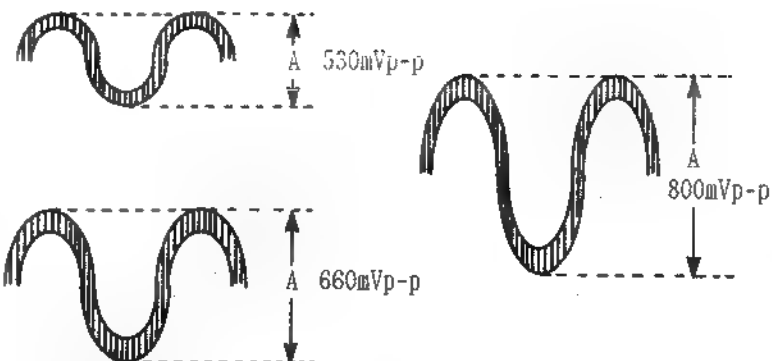
# 12-13. C CH1 RECORDING CURRENT ADJUSTMENT (FOR AU-65H / AU-65)

( RA / HA BOARD )

| TEST POINT  | MODE             | TAPE USED  | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT   |
|---|------------------|------------|--|------------------------|--|
| TP5<br>(on RA/HA)<br>TP203<br>(on RA/HA)  | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE   | COMPONENT<br>50% WHITE | VC3 (C CH1 REC EQ)<br>(on RA/HA BOARD)<br>VR5 (C CH1 CURR)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>VR5 : CENTRE</li> <li>Place the unit in the recording mode.</li> <li>SCOPE : TP5 (on RA/HA)</li> <li>During the recording mode, turn VC3 and measure the maximum level and minimum level.</li> <li>Adjust VC3 for the carrier level becomes middle level as shown.</li> </ol>   |                  |            | <p>TP5<br/>⊗ VC3</p>   |                        |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SCOPE : TP5 (on RA/HA)</li> <li>Place the unit in the recording mode.</li> <li>Turn VR5 so that the FM Carrier A level becomes 530mVp-p, 660mVp-p and 800mVp-p record about 10 sec. for each level.</li> <li>SCOPE : TP203 (on RA/HA)</li> <li>Play back the just recorded portion.</li> <li>Find the maximum playback level.</li> <li>Set VR5 to maximum playback level point (530mVp-p, 660mVp-p or 800mVp-p) at TP5..</li> </ol> <p>Note:<br/>If the playback maximum level is all the same level (<math>\pm 1.5\%</math>), set VR5 to lower playback level point.</p> |                  |            | <p>TP5<br/>⊗ VR5</p>  <p>Note:<br/>The reason we record 3 different levels is because the AU-65H/65 don't have a confidence head.</p> |                        |  |

# 12-14. C CH2 RECORDING CURRENT ADJUSTMENT (FOR AU-65H / AU-65)

( RA / HA BOARD )

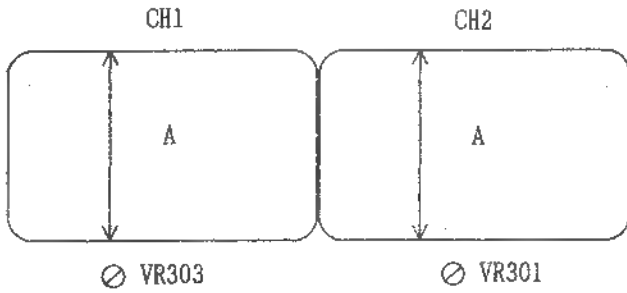
| TEST POINT   | MODE             | TAPE USED  | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT   |
|--|------------------|------------|--|------------------------|--|
| TP6<br>(on RA/HA)<br>TP204<br>(on RA/HA)   | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE   | COMPONENT<br>50% WHITE | VC4 (C CH2 REC EQ)<br>(on RA/HA BOARD)<br>VR6 (C CH2 CURR)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>VR6 : CENTRE</li> <li>Place the unit in the recording mode.</li> <li>SCOPE : TP6 (on RA/HA)</li> <li>During the recording mode, turn VC4 and measure the maximum level and minimum level.</li> <li>Adjust VC4 for the carrier level becomes middle level as shown in figure.</li> </ol>  |                  |            | <p>TP6<br/>⊗ VC4</p>  <p>ADJ. Target<br/>Middle</p>  |                        |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SCOPE : TP6 (on RA/HA)</li> <li>Place the unit in the recording mode.</li> <li>Turn VR6 so that the FM Carrier A level becomes 530mVp-p, 660mVp-p and 800mVp-p record about 10 sec. for each level.</li> <li>SCOPE : TP204 (on RA/HA)</li> <li>Play back the just recorded portion.</li> <li>Find the maximum playback level.</li> <li>Set VR6 to maximum playback level point (530mVp-p, 660mVp-p or 800mVp-p) at TP6.</li> </ol> <p>Note:<br/>If the playback maximum level is all the same level (<math>\pm 1.5\%</math>), set VR6 to lower playback level point.</p> |                  |            | <p>TP6<br/>⊗ VR6</p>  <p>Note:<br/>The reason we record 3 different levels is because the AU-65H/65 don't have a confidence head.</p> |                        |  |

## ( RA / HA BOARD )

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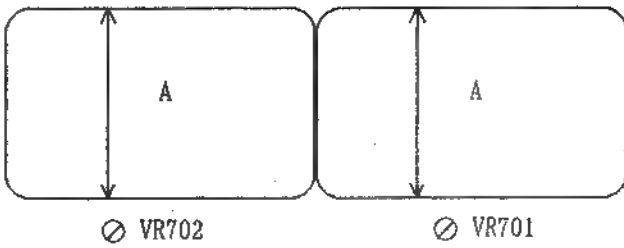
## 12-16. Y PLAYBACK FM CARRIER LEVEL READJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|--|------|---------------------------------|---|--------------|--|
| TP301<br>F29-AB<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | -----        | VR301<br><R/P (AT) CH2 LEV><br>VR303<br><R/P (AT) CH1 LEV> |
| 1. SCOPE CH1 : TP301<br>SCOPE CH2 : F29-AB EDGE CONNECTOR<br>(on W3) For Trigger<br><br>2. Adjust VR301 and VR303 so that the<br>signal level at TP301 is $400 \pm 20\text{mVp-p}$ . |      |                                 | TP301<br><br><br>$A = 400 \pm 20\text{mVp-p}$ |              |  |

## 12-17. C PLAYBACK FM CARRIER LEVEL READJUSTMENT

( W3: MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                       |
|--|------|---------------------------------|---|--------------|--|
| TP701<br>F33-AB<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | -----        | VR701<br>(R/P CH2 LEV)<br>VR702<br>(R/P CH1 LEV) |
| 1. SCOPE CH1 : TP701<br>SCOPE CH2 : F33-AB EDGE CONNECTOR<br>(on W3) For Trigger<br><br>2. Adjust VR701 and VR702 so that the<br>signal level at TP701 is $400 \pm 20\text{mVp-p}$ . |      |                                 | TP701<br><br><br>$A = 400 \pm 20\text{mVp-p}$ |              |  |

## 12-18. Y PLAYBACK RF LEVEL ADJUSTMENT ( FINE )

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT            |
|--|------|---------------------------------|---|--------------|-----------------------|
| TP307  | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE                                    | -----        | VR317<br>(LIM RF LEV) |
| Step 1.<br>MACHINE CONDITION   |      |                                 | SW304 → OFF                                     |              |                       |
| Step 2.<br><br>Adjust VR317 so that the RF level<br>at TP307 is $300 \pm 20\text{mVp-p}$ . |      |                                 | ⓪ VR317<br><br>TP307 : $300 \pm 20\text{mVp-p}$ |              |                       |
| Step 3.<br><br>SW304 → ON  |      |                                 |   |              |                       |

## 12-19. C PLAYBACK RF LEVEL ADJUSTMENT ( FINE )

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT               |
|---|------|---------------------------------|---|--------------|--------------------------|
| TP703   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE                                    | -----        | VR714<br>(LIM IN RF LEV) |
| Step 1.<br>MACHINE CONDITION  |      |                                 | SW704 → OFF                                     |              |                          |
| Step 2.<br><br>Adjust VR714 so that the signal level<br>at TP703 is $300 \pm 20\text{mVp-p}$ .        |      |                                 | ⓪ VR714<br><br>TP703 : $300 \pm 20\text{mVp-p}$ |              |                          |
| Step 3.<br>SW704 → OFF<br><br>Note:<br>The Chroma Super Limiter Function is<br>not used at this time. |      |                                 |   |              |                          |


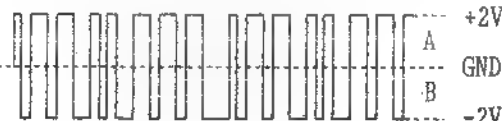
## ( W3 MOD &amp; DEMOD. )

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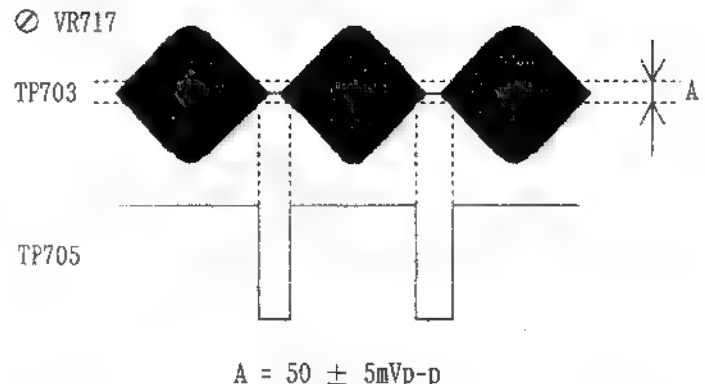
# 12-21. Y DROP OUT DETECTION LEVEL ADJUSTMENT (FOR AU-63H / AU-63)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                      |
|--|------|---------------------------------|---|--------------|---|
| TP307<br>TP315   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | -----        | VR317<br>(LIM IN RF LEV)<br>VR320<br>(D.O. DET) |
| Step 1.<br>MACHINE CONDITION   |      |                                 | SW304 → OFF   |              |   |
| Step 2.<br><br>1. SCOPE : TP307<br>2. Adjust VR317 so that the RF level (A) becomes $50 \pm 5\text{mVp-p}$ as shown in figure.   |      |                                 | <div> <div>⊙ VR317</div> <div> <div>TP703</div>  </div> <div><math>A = 50 \pm 5\text{mVp-p}</math></div> </div> |              |   |
| Step 3.<br><br>1. SCOPE SETTING : 1) Set GND LEVEL<br>2) Set AC Mode<br>2. SCOPE : TP315<br>3. Adjust VR320 so that level (A) equals level (B).<br>4. After that adjust VR317 so that the RF level becomes $300 \pm 20\text{mVp-p}$ at TP307.<br>5. SW304 → ON |      |                                 | <div> <div>⊙ VR320</div> <div> <div>TP315</div>  </div> <div><math>A = B</math></div> </div>                  |              |   |



**12-22. C DROP OUT DETECTION LEVEL ADJUSTMENT**  
(FOR AU-65H/62H and AU-65/62)

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT          |
|---|----------------|---------------------------------|---|--------------|---------------------|
| TP703<br>TP705  | JOG<br>(STILL) | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | -----        | VR717<br>(D.O. DET) |
| Step 1.<br>MACHINE CONDITION  |                |                                 | SW704 → OFF<br>MODE : JOG (STOP) at Colour Bar portion.                             |              |                     |
| Step 2.<br>1. Place the unit in the JOG STILL mode.   |                |                                 |  |              |                     |
| Step 3.<br>1. SCOPE CH1 : TP703<br>SCOPE CH2 : TP705<br>2. Adjust VR717 so that the DO pulses are appeared when level A of TP703 is 50 ± 5mVp-p.<br>3. SW704 : ON |                |                                 |   |              |                     |

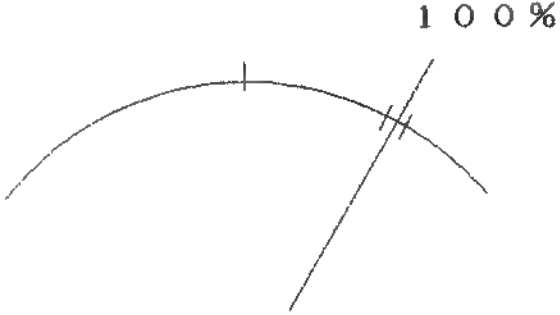
# 12-23. C DROP OUT DETECTION LEVEL ADJUSTMENT (FOR AU-63H / AU-63)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                      |
|--|------|---------------------------------|---|--------------|---|
| TP703<br>TP705   | PLAY | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | -----        | VR714<br>(LIM IN RF LEV)<br>VR717<br>(D.O. DET) |
| Step 1.<br>MACHINE CONDITION   |      |                                 | SW704 → OFF   |              |   |
| Step 2.<br>1. SCOPE : TP703<br>2. Adjust VR714 so that the RF level (A) becomes $50 \pm 5\text{mVp-p}$ as shown in figure.   |      |                                 | <div> <div>○ VR714</div> <div> <div>TP703</div>  </div> <div><math>A = 50 \pm 5\text{mVp-p}</math></div> </div> |              |   |
| Step 3.<br>1. SCOPE SETTING : AC Mode<br>2. SCOPE : TP705<br>3. Adjust VR717 so that (A) level equals (B) level.<br>4. After that adjust VR714 so that the RF level becomes $300 \pm 20\text{mVp-p}$ at TP703. |      |                                 | <div> <div>○ VR717</div> <div> <div>TP705</div>  </div> </div>  |              |   |
| Step 4.<br>SW704 : ON  |      |                                 |   |              |   |

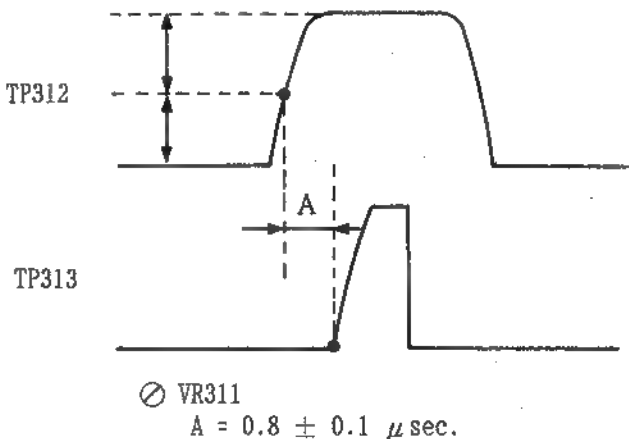
## 12-24. TRACKING METER ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED            | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|--|------|----------------------|--|--------------|------------|
| TRACKING METER   | PLAY | ALIGNMENT COLOUR BAR | -----  | -----        | VR312      |
| 1. Adjust VR312 so that the TRACKING METER indicates 100% point. |      |                      |  |              |            |

## 12-25. Y S/H PULSE ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT                          | MODE | TAPE USED       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT      |
|-------------------------------------|------|-----------------|--|--------------|-----------------|
| TP312<br>TP313                      | PLAY | ALIGNMENT SWEEP | OSCILLOSCOPE   | -----        | VR331 (S/H POS) |
| 1. Adjust VR311 as shown in figure. |      |                 |  |              |                 |

## 12-26. Y 3.375MHz B.P.F ADJUSTMENT


( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED       | M.EQ.        | INPUT SIGNAL | ADJUSTMENT    |
|--|------|-----------------|--------------|--------------|---------------|
| TP312  | PLAY | ALIGNMENT SWEEP | OSCILLOSCOPE | -----        | VL303 (VR326) |
| <b>Step 1.</b><br><br>1. Connect the scope TP312 and set VR326 so that signal level at TP312 is minimum.<br><br>2. Adjust VL303 so that the signal peak is 3.375MHz. |      |                 |              |              |               |

## 12-27. Y AUTO EQ FREQUENCY CHARACTERISTIC ADJUSTMENT

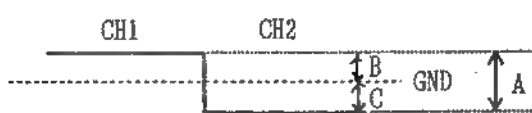
(1) (FOR AU-65H/62H and AU-65/62)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                              |
|--|------|-----------------|---|--------------|---|
| TP317<br>COMPONENT<br>Y OUT  | PLAY | ALIGNMENT SWEEP | OSCILLOSCOPE<br>AND<br>WAVE FORM<br>MONITOR   | -----        | VR326 (A EQ PS)<br>VR329 (A EQ R/P BAL) |
| <b>Step 1.</b><br><br>1. Set the machine condition SW306 "ON" and SW305 "OFF" mode.  |      |                 | SW306 -----> ON<br>(A EQ SW)<br>SW305 -----> OFF<br>(A EQ VAR)  |              |   |
| <b>Step 2.</b><br><br>1. Set the oscilloscope DC mode and playback alignment tape sweep portion.<br>2. Adjust VR329 and VR326 so that the channel DC difference is minimum (less than 0.5V) and centre level of DC difference is GND at TP317.           |      |                 | TP317<br><br><br><br>⊙ VR329 A = MINIMUM<br>⊙ VR326 B = C |              |   |
| <b>Step 3.</b><br><br>1. Confirm COMPONENT Y OUT waveform by waveform monitor so that the frequency characteristic is not change with SW306 "ON" and "OFF".<br>2. If it is not same frequency characteristic with SW306 "ON" and "OFF", readjust Step 2. |      |                 |   |              |   |

|   |   |
|---|---|
| <p>Step 4.</p> <p>1. After adjustment reset the SW305 and the SW306 user setting mode.</p> <p>Note:<br/>Initial setting in factory is SW305 and SW306 "OFF" mode.</p> | <p>SW305, SW306 → USER SETTING MODE</p> |
|---|---|

**12-28. Y AUTO EQ FREQUENCY CHARACTERISTIC ADJUSTMENT (2) (FOR AU-63H / AU-63)** ( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED       | M.EQ.   | INPUT SIGNAL  | ADJUSTMENT  |
|--|------|-----------------|---|---|---|
| <p>TP317</p> <p>COMPONENT Y OUT</p>  | PLAY | ALIGNMENT SWEEP | OSCILLOSCOPE AND WAVE FORM MONITOR  | -----   | <p>VR326 (A EQ PS)</p> <p>VR330 (A EQ DT BAL)</p> |
| <p>Step 1.</p> <p>1. Set the machine condition SW306 "ON" and SW305 "OFF" mode.</p>  |      |                 |   | <p>SW306 -----→ ON<br/>(A EQ SW)</p> <p>SW305 -----→ OFF<br/>(A EQ VAR)</p> |   |
| <p>Step 2.</p> <p>1. Set the oscilloscope DC mode and playback alignment tape sweep portion.</p> <p>2. Adjust VR330 and VR326 so that the channel DC difference is minimum (less than 0.5V) and centre level of DC difference is GND at TP317.</p>           |      |                 | <p>TP317</p>  <p>           ○ VR330    A = MINIMUM<br/>           ○ VR326    B = C         </p> |   |   |
| <p>Step 3.</p> <p>1. Confirm COMPONENT Y OUT waveform by waveform monitor so that the frequency characteristic is not change with SW306 "ON" and "OFF".</p> <p>2. If it is not same frequency characteristic with SW306 "ON" and "OFF", readjust Step 2.</p> |      |                 |   |   |   |
| <p>Step 4.</p> <p>1. After adjustment reset the SW305 and the SW306 user setting mode.</p> <p>Note:<br/>Initial setting in factory is SW305 and SW306 "OFF" mode.</p>  |      |                 |   | <p>SW305, SW306 → USER SETTING MODE</p>                                     |   |

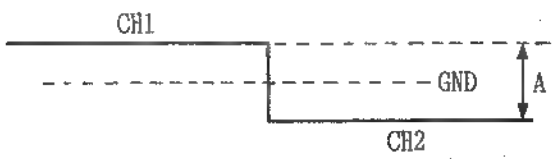
# 12-29. Y AUTO EQ V MODE CONFIRMATION

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED          | M.EQ.               | INPUT SIGNAL | ADJUSTMENT     |
|---|------|--------------------|---------------------|--------------|----------------|
| COMPONENT<br>Y OUT  | PLAY | ALIGNMENT<br>SWEEP | WAVEFORM<br>MONITOR | -----        | VR327 (A EQ V) |
| 1. Set the machine condition SW306 and SW305 "ON" mode.<br>2. Confirm so that frequency characteristic is able to be changed by VR327.<br>3. After adjustment, reset the SW306 and SW305 user setting mode. |      |                    |                     |              |                |

# 12-30. Y SELF RECODING AUTO EQ FREQUENCY CHARACTERISTIC CONFIRMATION (FOR AU-65H / AU-65)

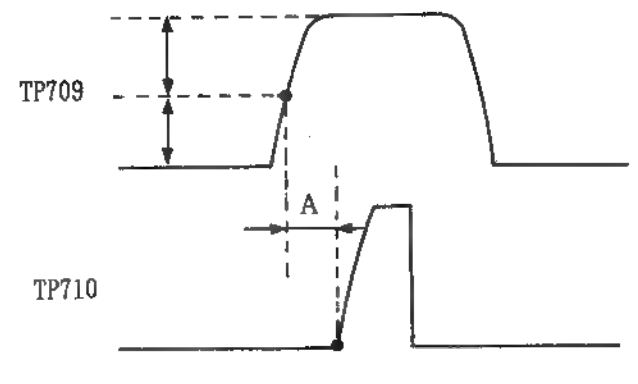
( W3 MOD & DEMOD )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL              | ADJUSTMENT                             |
|--|------------------|------------|---|---------------------------|--|
| TP317<br>(on W3<br>P.C.Board)<br>COMPONENT<br>Y OUT  | REC<br>↓<br>PLAY | BLANK TAPE | OSCILLOSCOPE<br>AND<br>WAVEFORM<br>MONITOR  | COMPONENT<br>60%<br>SWEEP | VR503 (Y BU LEV.)<br>(on W4 P.C.Board) |
| Step 1.<br><br>1. Set the machine condition SW306 "ON" and SW305 "OFF" mode.   |                  |            | SW306 -----> ON<br>(A EQ SW)<br>SW305 -----> OFF<br>(A EQ VAR)  |                           |  |
| Step 2.<br><br>1. Make ■ recording sweep signal.<br>2. Then playback the just recording portion.<br>3. Connect the scope to TP317 and confirm that DC level difference is less than 1V and centre point of the DC level difference is GND. |                  |            | TP317<br><br><br>A = Less than 1V |                           |  |

|  |  |
|--|--|
| <p>Step 3.</p> <ol style="list-style-type: none"> <li>1. Connect the waveform monitor to COMPONENT Y OUT and confirm that the frequency characteristic is same with SW306 "ON" and "OFF".</li> <li>2. If it is not same frequency characteristic, adjust VR503 so that the selfrecording and playback frequency characteristic with SW306 "ON" and "OFF" is same.</li> </ol>   |  |
| <p>Step 4.</p> <ol style="list-style-type: none"> <li>1. However if the frequency characteristic is unbalance between CH1 and CH2, adjust VR503 so that the frequency characteristic of two channels average with SW306 "ON" and with SW306 "OFF" are same.<br/>And adjust recording current without channels difference.</li> <li>2. When Step 4 adjustment is done readjust recording frequency adjustment.</li> </ol> |  |

## 12-31. C S/H PULSE ADJUSTMENT


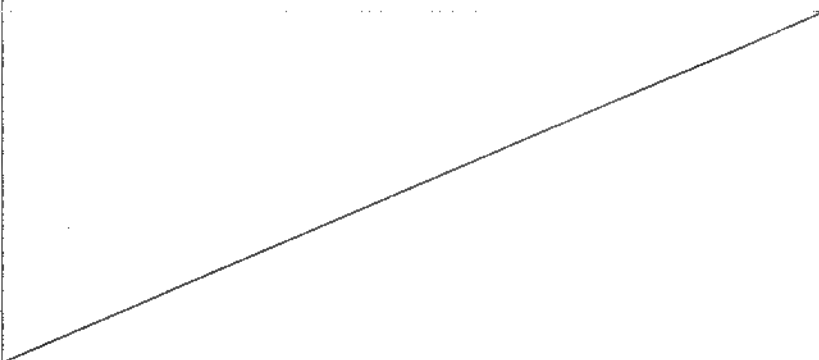
( W3 MOD & DEMOD )

| TEST POINT                                 | MODE | TAPE USED       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT      |
|--|------|-----------------|---|--------------|-----------------|
| TP709<br>TP710                             | PLAY | ALIGNMENT SWEEP | OSCILLOSCOPE  | -----        | VR726 (S/H POS) |
| <p>1. Adjust VR726 as shown in figure.</p> |      |                 |  <p><math>A = 0.5 \pm 0.1 \mu \text{ sec.}</math></p> |              |                 |



# 12-32. C AUTO EQ FREQUENCY CHARACTERISTIC ADJUSTMENT

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED          | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                              |
|---|------|--------------------|---|--------------|---|
| TP712<br><br>COMPONENT<br>Pb OUT  | PLAY | ALIGNMENT<br>SWEEP | OSCILLOSCOPE<br>AND<br>WAVEFORM<br>MONITOR  | -----        | VR723 (A EQ PS)<br><br>VR725 (A EQ BAL) |
| Step 1.<br><br>1. Set the machine condition SW306 "ON"<br>and SW305 "OFF".  |      |                    | SW306 -----> ON<br>(A EQ SW)<br>SW305 -----> OFF<br>(A EQ VAR)  |              |   |
| Step 2.<br><br>1. Set the oscilloscope DC mode and<br>playback alignment tape sweep portion.<br>2. Adjust VR725 and VR723 so that the<br>channel DC difference is minimum (less<br>than 0.5V) and centre level of DC<br>difference is GND at TP721.               |      |                    | TP712<br><br><br><br>⊗ VR725    A = MINIMUM<br>⊗ VR723    B = C |              |   |
| Step 3.<br><br>1. Confirm COMPONENT Pb OUT waveform<br>by waveform monitor so that the<br>frequency characteristic is not<br>change with SW306 "ON" and "OFF".<br>2. If it is not same frequency<br>characteristic with SW306 "ON" and<br>"OFF", readjust Step 2. |      |                    |   |              |   |
| Step 4.<br><br>1. After adjustment reset the SW305 and<br>the SW306 user setting mode.<br><br>Note:<br>Initial setting in factory is SW305 and<br>SW306 "OFF".  |      |                    | SW305, SW306 → USER SETTING MODE  |              |   |

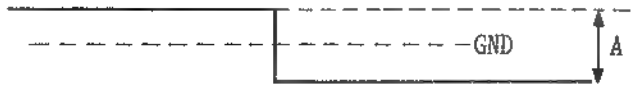
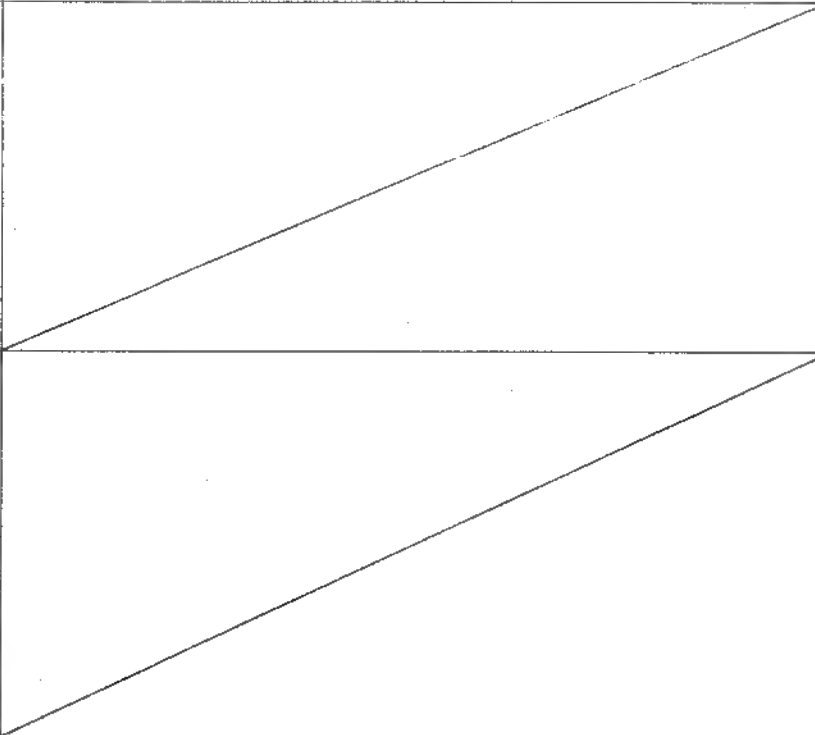
## 12-33. C AUTO EQ V MODE CONFIRMATION

( W3 MOD &amp; DEMOD )

| TEST POINT  | MODE | TAPE USED          | M.EQ.               | INPUT SIGNAL | ADJUSTMENT     |
|---|------|--------------------|---------------------|--------------|----------------|
| COMPONENT<br>Pb OUT   | PLAY | ALIGNMENT<br>SWEEP | WAVEFORM<br>MONITOR | -----        | VR724 (A EQ V) |
| 1. Set the machine condition SW306 and SW305 "ON" mode.<br>2. Confirm so that frequency characteristic is able to be change by VR724<br>3. After adjustment, reset the SW306 and SW305 user setting mode. |      |                    |                     |              |                |

**12-34. C SELF RECODING AUTO EQ FREQUENCY  
CHARACTERISTIC COMFIRMATION  
(FOR AU-65H / AU-65)**

( W3 MOD & DEMOD )

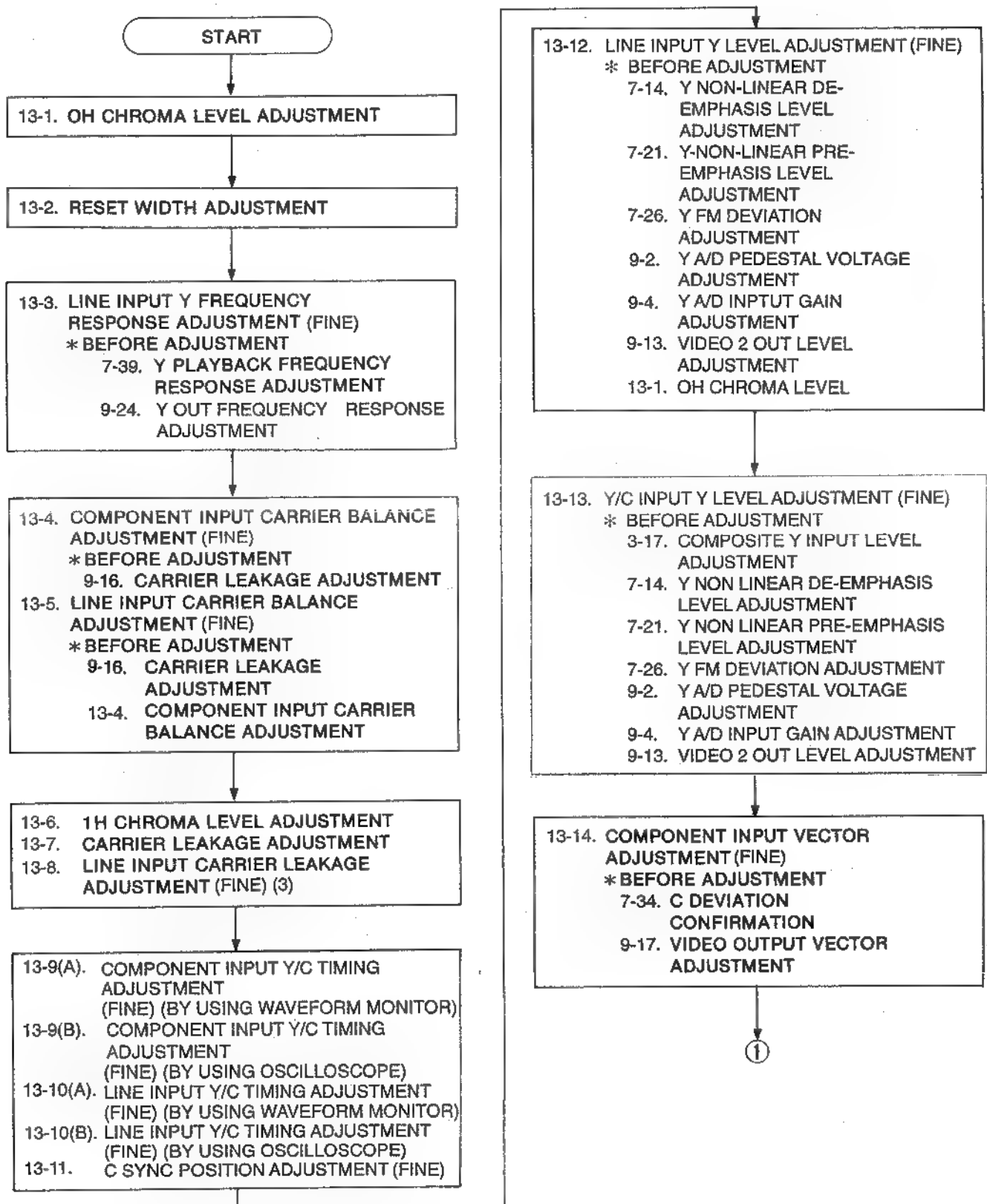
| TEST POINT   | MODE             | TAPE USED  | M.EQ.  | INPUT SIGNAL              | ADJUSTMENT                             |
|--|------------------|------------|--|---------------------------|--|
| TP712<br>(on W3<br>P.C.Board)<br>COMPONENT<br>Pb OUT   | REC<br>↓<br>PLAY | BLANK TAPE | OSCILLOSCOPE<br>AND<br>WAVEFORM<br>MONITOR   | COMPONENT<br>60%<br>SWEEP | VR504 (C BU LEV.)<br>(on W4 P.C.Board) |
| Step 1.<br>1. Set the machine condition SW306 "ON"<br>and SW305 "OFF" mode.  |                  |            | SW306 -----> ON<br>(A EQ SW)<br>SW305 -----> OFF<br>(A EQ VAR)   |                           |  |
| Step 2.<br>1. Make a recording sweep signal.<br>2. Then playback the just recording<br>portion.<br>3. Connect the scope to TP712 and<br>confirm that DC level difference is<br>less than 1V and centre point of the<br>DC level difference is GND.   |                  |            | <br><br>A = Less than 1V |                           |  |
| Step 3.<br>1. Connect the waveform monitor to<br>COMPONENT Pb OUT and confirm that the<br>frequency characteristic is same with<br>SW306 "ON" and "OFF".<br>2. If it is not same frequency<br>characteristic, adjust VR504 so that<br>the selfrecording and playback<br>frequency characteristic with SW306<br>"ON" and "OFF" is same.   |                  |            |                         |                           |  |
| Step 4.<br>1. However if the frequency characteristic<br>is unbalance between CH1 and CH2,<br>adjust VR504 so that the frequency<br>characteristic of two channels average<br>with SW306 "ON" and with SW306 "OFF"<br>are same.<br>And adjust recording current without<br>channels difference.<br>2. When Step 4 adjustment is done readjust<br>recording frequency adjustment. |                  |            |  |                           |  |
| Step 5.<br>1. After adjustment reset the SW305 and<br>the SW306 user setting mode.<br><br>Note:<br>Initial setting in factory is SW305 and<br>SW306 "OFF".   |                  |            | SW305, SW306 → USER SETTING MODE   |                           |  |

# 13. DECODER & CTCM (W4) BOARD (2/2)

## DECODER & CTCM SECTION (2/2) (W4) FLOWCHART FOR AU-65H/AU-65

### \* BEFORE ADJUSTMENT

The adjustment with this comment is necessary to adjust after the following adjustments are completed.



①



13-15. LINE INPUT VECTOR ADJUSTMENT (FINE)  
\* BEFORE ADJUSTMENT  
7-34. C DEVIATION CONFIRMATION  
9-17. VIDEO OUTPUT VECTOR  
ADJUSTMENT  
13-14. COMPONENT INPUT VECTOR  
ADJUSTMENT



13-16. Y/C INPUT VECTOR ADJUSTMENT (FINE)  
\* BEFORE ADJUSTMENT  
7-34. C DEVIATION CONFIRMATION  
9-17. VIDEO OUTPUT VECTOR  
ADJUSTMENT  
13-14. COMPONENT INPUT VECTOR  
ADJUSTMENT  
13-15. LINE INPUT VECTOR ADJUSTMENT



13-17. SCH ADJUSTMENT



13-18. VISC PHASE ADJUSTMENT  
\* BEFORE ADJUSTMENT  
TBC & SYNC GEN (W1) and  
ENCODER (W2)  
ADJUSTMENTS SHOULD  
BE COMPLETED.



13-19. 13.5MHz PLL ADJSUTMENT (1)  
TBC & SYNC GEN (W1) and  
ENCODER (W2)  
ADJUSTMENTS SHOULD  
BE COMPLETED.  
13-20. 13.5MHz PLL ADJSUTMENT (2)  
TBC & SYNC GEN (W1) and  
ENCODER (W2)  
ADJUSTMENTS SHOULD  
BE COMPLETED.  
13-21. 13.5MHz PLL ADJSUTMENT (3)  
TBC & SYNC GEN (W1) and  
ENCODER (W2)  
ADJUSTMENTS SHOULD  
BE COMPLETED.

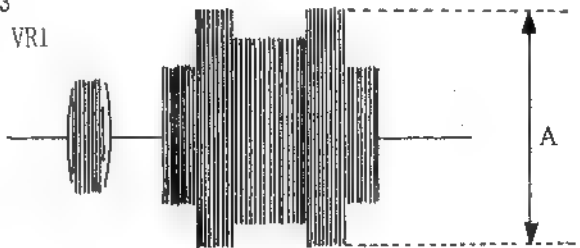


END

### 13. DECODER & CTCM (W4) BOARD (2/2)

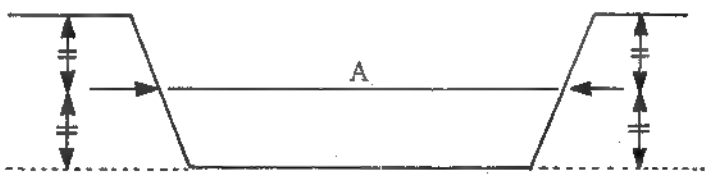
#### 13-1. OH CHROMA LEVEL ADJUSTMENT (FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                     | ADJUSTMENT       |
|--|----------------|-----------|--|----------------------------------|------------------|
| TP3  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | LINE INPUT<br>100%<br>COLOUR BAR | VR1 (INPUT LEV.) |
| <p>Step 1.</p> <p>1. SCOPE : TP3</p> <p>2. Adjust VR1 so that the level (A) is <math>1.14 \pm 0.01V_{p-p}</math> as shown in figure.</p> <p>Note:<br/>BAND WIDTH FILTER of SCOPE = 20MHz</p> |                |           | <p>TP3<br/>⊗ VR1</p>  <p><math>A = 1.14 \pm 0.01V_{p-p}</math></p> |                                  |                  |

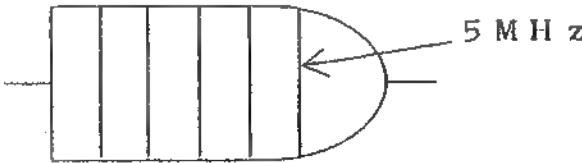
#### 13-2. RESET WIDTH ADJUSTMENT (FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL             | ADJUSTMENT   |
|--|----------------|-----------|---|--------------------------|--------------|
| IC401<br>Pin 12  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | LINE INPUT<br>COLOUR BAR | VR403 (RSTW) |
| <p>Step 1.</p> <p>1. SCOPE : IC401</p> <p>2. Adjust VR403 so that the pulse width (A) is <math>4.0 \pm 0.05 \mu\text{sec}</math> as shown in figure.</p> |                |           | <p>IC401 Pin 12<br/>⊗ VR403</p>  <p><math>A = 4.0 \pm 0.05 \mu\text{sec}</math></p> |                          |              |

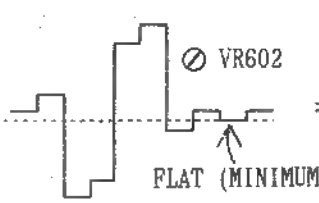
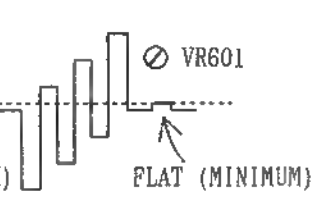
### 13-3. LINE INPUT Y FREQUENCY RESPONSE ADJUSTMENT ( FINE ) ( FOR AU-65H / AU-65 )

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL          | ADJUSTMENT        |
|---|----------------|-----------|---|-----------------------|-------------------|
| VIDEO 2<br>OUT  | E-E<br>(EJECT) | -----     | WAVEFORM<br>MONITOR<br>OR<br>SCOPE  | SWEEP<br>(LINE INPUT) | VC201<br>(Y FREQ) |
| Step 1.<br><br>MACHINE CONDITION  |                |           | INPUT SELECT : LINE<br><br>Connect a jumper wire between F15 and GND on W2<br>P.C.Board to out chroma signal.           |                       |                   |
| Step 2.<br><br>Note:<br>The following adjustments should be<br>completed before this adjustment.<br>1) 7-39 Y PLAYBACK FREQUENCY<br>RESPONSE ADJ. (W3)<br>2) 9-24 Y OUT FREQUENCY<br>RESPONSE ADJ. (W2) |                |           | <br><br>0.1 ~ 5MHz : FLAT ( ± 1.0dB ) |                       |                   |

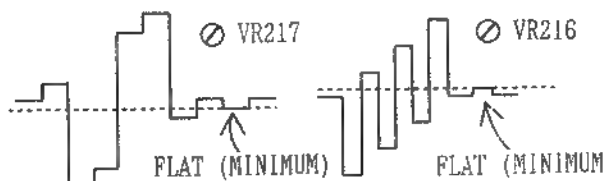
### 13-4. COMPONENT INPUT CARRIER BALANCE ADJUSTMENT ( FINE ) ( FOR AU-65H / AU-65 )

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL            | ADJUSTMENT                                   |
|---|----------------|-----------|---|-------------------------|--|
| COMPONENT<br>Pr/Pb<br>OUT   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>COLOUR BAR | VR601 (Pb CLAMP REF)<br>VR602 (Pr CLAMP REF) |
| Step 1.<br><br>CARRIER LEAKAGE ADJ. (9-16) (W2) should<br>be completed. |                |           | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">             ( PR OUT )<br/>  </div> <div style="text-align: center;">             ( PB OUT )<br/>  </div> </div> |                         |  |

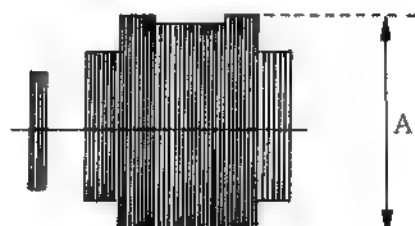
### 13-5. LINE INPUT CARRIER BALANCE ADJUSTMENT ( FINE ) ( FOR AU-65H / AU-65 )

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL             | ADJUSTMENT                             |
|--|----------------|-----------|---|--------------------------|--|
| COMPONENT<br>Pr/Pb<br>OUT  | E-E<br>(EJECT) | -----     | WAVEFORM<br>MONITOR   | LINE INPUT<br>COLOUR BAR | VR216 (Pb BLK DC)<br>VR217 (Pr BLK DC) |
| <p>Step 1.</p> <p>The following adjustments should be completed before this adjustment.</p> <p>1) CARRIER LEAKAGE ADJ. (9-16) (W2)<br/>2) COMPONENT INPUT CARRIER<br/>BALANCE ADJ. (13-4) (W4)</p> |                |           | <p>(PR OUT) (PB OUT)</p>  |                          |  |

### 13-6. 1H CHROMA LEVEL ADJUSTMENT ( FOR AU-65H / AU-65 )

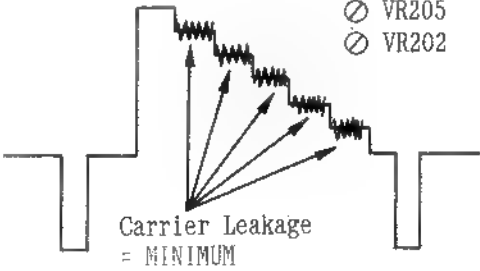
( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                     | ADJUSTMENT     |
|--|----------------|-----------|---|----------------------------------|----------------|
| TP202  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | LINE INPUT<br>COLOUR BAR<br>100% | VR204 (C LEV.) |
| <p>Step 1.</p> <p>1. SCOPE CH1 : TP202</p> <p>2. Adjust VR204 so that the level (A) is<br/><math>1.4 \pm 0.05V_{p-p}</math>.</p> <p>Note:<br/>BAND WIDTH FILTER of SCOPE = 20MHz</p> |                |           | <p>TP202    <math>\otimes</math> VR204</p>  |                                  |                |



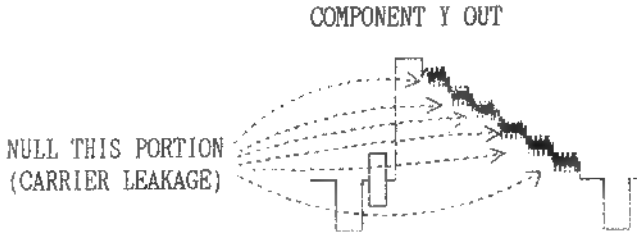
# 13-7. CARRIER LEAKAGE ADJUSTMENT (FOR AU-65H / AU-65)

( W4 DEC & CTOM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL             | ADJUSTMENT                                  |
|---|----------------|-----------|---|--------------------------|---|
| COMPONENT<br>Y OUT  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | LINE INPUT<br>COLOUR BAR | SW201<br>VR205 (C REJ.)<br>VR202 (1H V TMG) |
| Step 1.<br><br>MACHINE CONDITION<br>( STD mode )  |                |           | 1. Set-up Menu No. 1011 → 00 FRONT SWITCH<br><br>2. Input signal is standard signal from signal generator.  |                          |   |
| Step 2.<br><br>1. SCOPE CH1 : COMPONENT Y OUT<br><br>2. SW201 : ADJ. side<br><br>3. Adjust VR205 and VR202 and nullify the carrier leakage.<br><br>4. SW201 : NORM side |                |           | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">TP504</div>  <div style="margin-left: 20px;"> <p>○ VR205</p> <p>○ VR202</p> </div> </div> |                          |   |

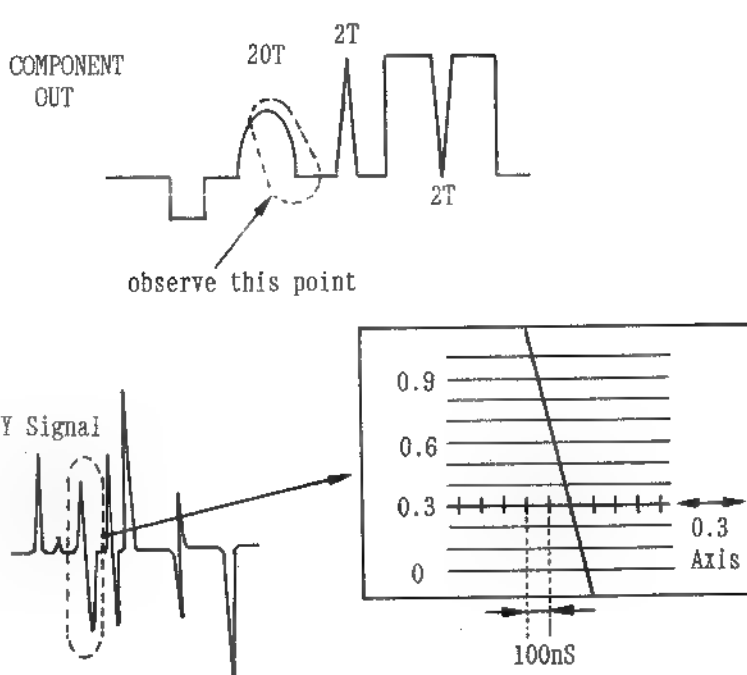
**13-8. LINE INPUT CARRIER LEAKAGE ADJUSTMENT**  
**(FINE) (3) (FOR AU-65H / AU-65)**

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL          | ADJUSTMENT   |
|--|----------------|-----------|---|-----------------------|--|
| COMPONENT<br>Y OUT<br><br>TP201  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | LINE IN<br>COLOUR BAR | SW201<br>VR203 (1H ADJ)<br>VR205 (C REJ)<br>VR202 (1HV TMG)<br>VR10 (NSTD C LEV) |
| Step 1.<br><br>MACHINE CONDITION<br>( STD mode )   |                |           | 1. Set-up Menu No. 1011 → 00 FRONT SWITCH<br><br>2. Input signal is standard signal from signal generator.    |                       |  |
| Step 2.<br><br>1. SCOPE : COMPONENT Y OUT<br><br>2. SW201 : NORM side<br><br>• Adjust VR203 and VR205 so that the carrier leakage is minimized (Less than 10mVp-p).<br><br>• SCOPE : TP201<br><br>• Adjust VR202 so that the DC level is $0 \pm 0.1Vp-p$ . |                |           | VR203, VR205, VR10<br><br> |                       |  |

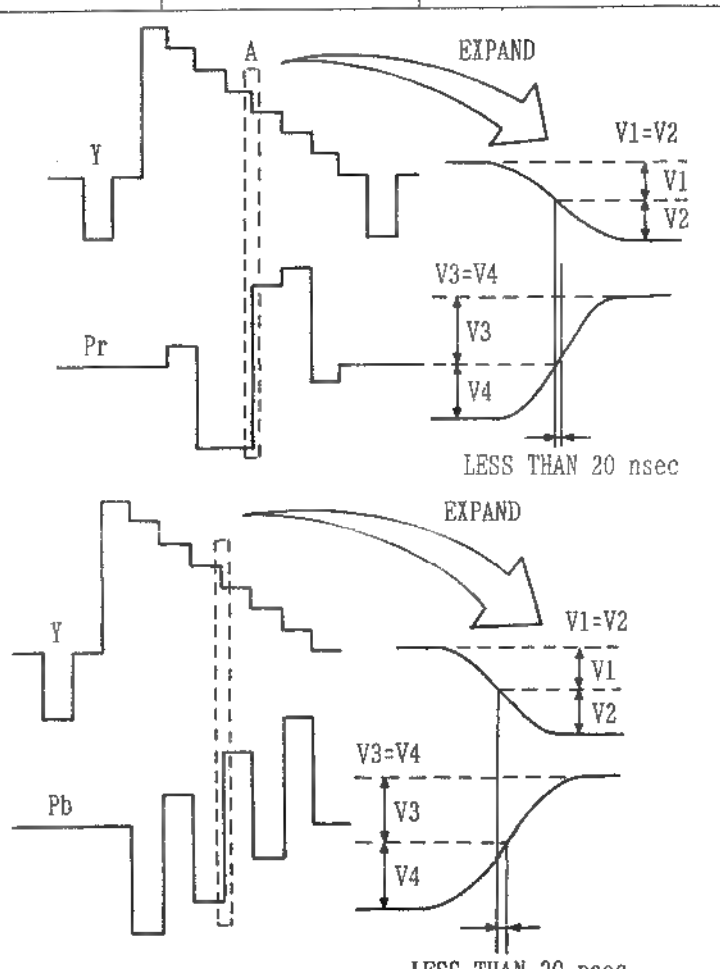
**13-9(A) . COMPONENT INPUT Y/C TIMING ADJUSTMENT  
( FINE ) ( BY USING WAVEFORM MONITOR )  
( FOR AU-65H / AU-65 )**

( W4 DEC & CTCM )

| TEST POINT   | MODE             | TAPE USED     | M.EQ.  | INPUT SIGNAL                           | ADJUSTMENT         |
|--|------------------|---------------|--|--|--------------------|
| COMPONENT<br>Y OUT<br>Pb OUT<br>Pr OUT   | SELF<br>REC/PLAY | BLANK<br>TAPE | WAVEFORM<br>MONITOR  | COMPONENT<br>PULSE & BAR<br>(MOD. 20T) | VR505<br>(Y/C TMG) |
| <b>Step 1.</b><br><br>1. WAVEFORM MONITOR CONDITION  |                  |               | RESPONSE : DIFFD STEP<br>VOLTS FULL SCALE : MAX (UNCAL)<br>DISPLAY : $\times 1$ (5)<br>MAGNIFIER : $\times 50$ (0.1)<br>TRIGGER : VIDEO OUT OF VTR |  |                    |
| <b>Step 2.</b><br><br>1. Make a recording, then play back the recorded portion.<br>2. WFM MONITOR<br><br>CHA : COMPONENT Y OUT<br><br>CHB : COMPONENT Pr (Pb) OUT<br><br>EXT SYNC CH1 : VIDEO OUT<br>CH2 : VIDEO OUT<br><br>3. COMPONENT OUTPUT CABLE LENGTH : Same Length<br>4. Observe the falling portion of Modulated 20T pulse signal.<br>5. Adjust the vertical and horizontal position of WFM Monitor so that the centre of falling edge is set to 0.3 axis as shown in figure.<br>6. Change the Input Select of WFM Monitor from A ch (COMPONENT Y OUT) to B ch (COMPONENT Pr OUT).<br>7. Measure the difference between Y and Pr (Pb) signal timing.<br>8. If it is not within $\pm 20\text{nsec}$ , readjust VR505 and repeat item 1 to 8 of Step 2. |                  |               |   |  |                    |

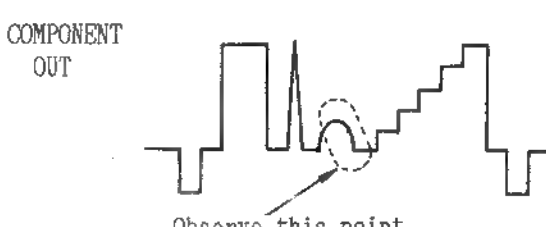
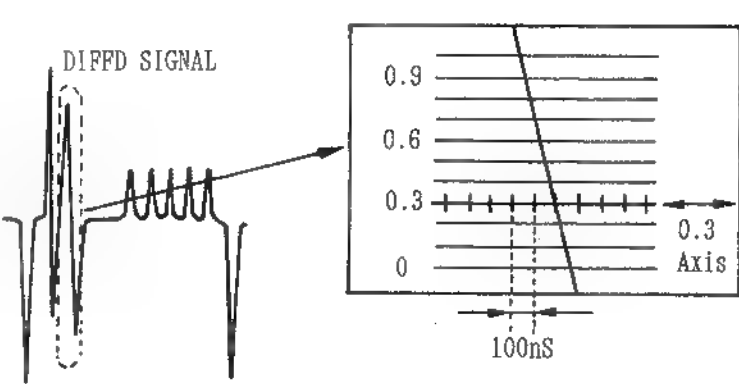
13-9(B) . COMPONENT INPUT Y/C TIMING ADJUSTMENT  
(FINE) (BY USING OSCILLOSCOPE)  
(FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL            | ADJUSTMENT         |
|--|------------------|------------|---|-------------------------|--------------------|
| COMPONENT<br>Y OUT<br>Pb OUT<br>Pr OUT   | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE  | COMPONENT<br>COLOUR BAR | VR505<br>(Y/C TMG) |
| <p>Step 1.</p> <p>1. Make a recording.</p> <p>2. Then play back the recorded portion.</p> <p>3. SCOPE CH1 : COMPONENT Y OUT</p> <p>SCOPE CH2 : COMPONENT Pr (Pb) OUT</p> <p>*Note:<br/>COMPONENT OUTPUT CABLE LENGTH<br/>should be the Same Length.</p> <p>4. Confirm that the Y/C Timing of<br/>component output is less than 20nsec.</p> <p>5. If it is not, readjust VR505 and repeat<br/>from item 1 to 4.</p> |                  |            |  |                         |                    |

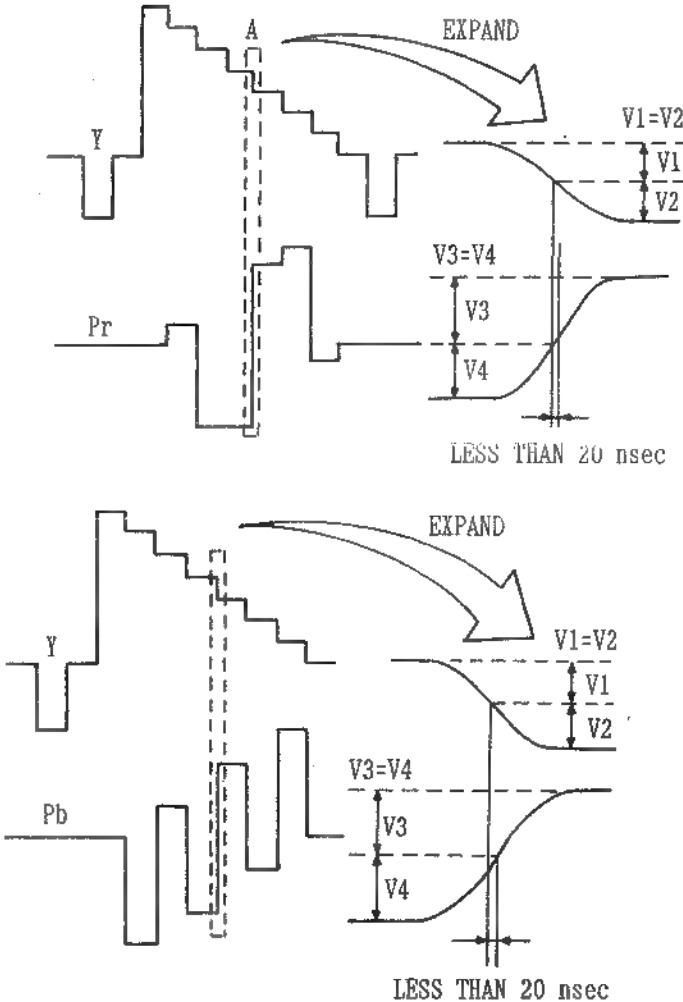
13-10(A). LINE INPUT Y/C TIMING ADJUSTMENT (FINE)  
(BY USING WAVEFORM MONITOR)  
(FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT   | MODE             | TAPE USED     | M.EQ.   | INPUT SIGNAL                         | ADJUSTMENT                       |
|--|------------------|---------------|---|--------------------------------------|----------------------------------|
| COMPONENT<br>Y OUT<br>Pb OUT<br>Pr OUT   | SELF<br>REC/PLAY | BLANK<br>TAPE | WAVEFORM<br>MONITOR   | LINE IN<br>Mod. 20T<br>W/RAMP SIGNAL | VR214 (Pr TMG)<br>VR212 (Pb TMG) |
| Step 1.<br><br>1. WAVEFORM MONITOR CONDITION   |                  |               | RESPONSE : DIFFD STEP<br>VOLTS FULL SCALE : MAX (UNCAL)<br>DISPLAY : $\times 1$ (5)<br>MAGNIFIER : $\times 50$ (0.1)<br>TRIGGER : VIDEO OUT OF VTR                          |                                      |                                  |
| Step 2.<br><br>1. Make a recording then, play back the just recorded portion.<br>2. WFM MONITOR<br><br>CH A INPUT : COMPONENT Y OUT<br><br>CH B INPUT : COMPONENT Pr (Pb) OUT<br><br>EXT SYNC CH A : VIDEO OUT<br>CH B : VIDEO OUT<br><br>3. Observe the falling portion of Modulated 12.5T pulse signal.<br>4. Adjust the vertical and horizontal position of WFM Monitor so that the centre of falling edge is set to 0.3 axis as shown in figure.<br>5. Change the Input Select of WFM Monitor from A ch (COMPONENT Y OUT) to B ch (COMPONENT Pr OUT).<br>6. Measure the difference between Y and Pr (Pb) signal timing.<br>7. If it is not within $\pm 20\text{nsec}$ , readjust VR214 (Pr) and VR212 (Pb) and repeat item 1 to 7 of STEP 2. |                  |               | <br> |                                      |                                  |

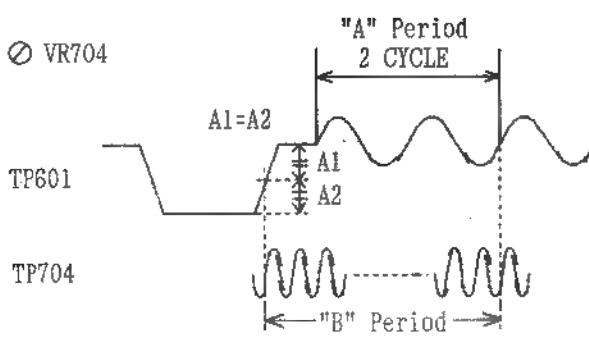
**13-10(B) . LINE INPUT Y/C TIMING ADJUSTMENT ( FINE )**  
**( BY USING OSCILLOSCOPE )**  
**( FOR AU-65H / AU-65 )**

( W4 DEC & CTCM )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL          | ADJUSTMENT                       |
|--|------------------|------------|---|-----------------------|----------------------------------|
| COMPONENT<br>Y OUT<br>Pb OUT<br>Pr OUT   | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE  | LINE IN<br>COLOUR BAR | VR214 (Pr TMG)<br>VR212 (Pb TMG) |
| <p>Step 1.</p> <p>1. Make a recording for a few minutes.</p> <p>2. Play back the just recorded portion.</p> <p>3. SCOPE CH1 : COMPONENT<br/>Y OUT<br/>SCOPE CH2 : COMPONENT<br/>Pr (Pb) OUT</p> <p>*Note :<br/>COMPONENT OUTPUT CABLE LENGTH<br/>should be the Same Length.</p> <p>4. Confirm that the Y/C Timing of<br/>component output is less than 20nse.</p> <p>5. If it is not, readjust VR214 (Pr), VR212<br/>(Pb) and repeat from item 1 to 4.</p> |                  |            |  |                       |                                  |

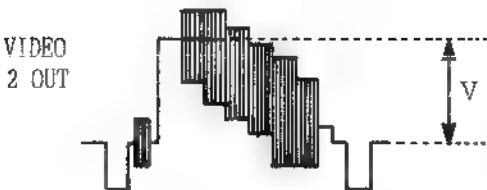
13-11. C SYNC POSITION ADJUSTMENT (FINE)  
(FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL            | ADJUSTMENT       |
|--|----------------|-----------|---|-------------------------|------------------|
| TP601<br>TP704   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>COLOUR BAR | VR704 (C SY POS) |
| Step 1.<br>MACHINE CONDITION<br>( STD mode )   |                |           | 1. Set-up Menu No. 1011 → 00 FRONT SWITCH<br>2. Input signal is standard signal from signal generator.  |                         |                  |
| Step 2.<br><br>1. SCOPE CH1 : TP601<br>SCOPE CH2 : TP704<br>2. Delay the scope at C Sync and Burst portion.<br>3. Adjust VR704 so that the B period is 18 cycles $\pm$ 5 nsec. |                |           |  <p>"A" Period<br/>2 CYCLE</p> <p>VR704</p> <p>TP601</p> <p>TP704</p> <p>"B" Period</p> <p>"B" = 18 cycles <math>\pm</math> 5 nsec</p> |                         |                  |

# 13-12. LINE INPUT Y LEVEL ADJUSTMENT (FINE) (FOR AU-65H / AU-65)

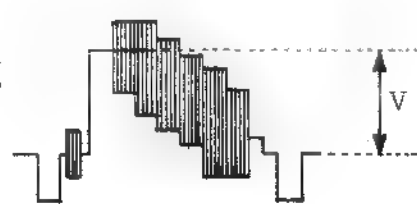
( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                  | ADJUSTMENT    |
|---|----------------|-----------|---|-------------------------------|---------------|
| VIDEO 2<br>OUT  | E-E<br>(EJECT) | -----     | WAVEFORM<br>MONITOR   | LINE IN<br>COLOUR BAR<br>100% | VR207 (Y LEV) |
| Step 1.<br><br>MACHINE CONDITION  |                |           | The following adjustments should be completed before<br>this adjustment is done.<br>Please confirm followings.<br><br>1) Y NON LINEAR DE-EMPHASIS LEVEL (7-14)<br>2) Y NON LINEAR PRE-EMPHASIS LEVEL (7-21)<br>3) Y FM DEVIATION (7-26)<br>4) Y A/D PEDESTAL VOLTAGE (9-2)<br>5) Y A/D INPUT GAIN (9-4)<br>6) VIDEO 2 OUT LEVEL (9-13)<br>7) OH CHROMA LEVEL (13-1) |                               |               |
| Step 2.<br><br>1. VIDEO VR : Push in to PRESET POSITION<br><br>2. Adjust VR207 so that the Video Level<br>(V) becomes $0.7V \pm 0.007V_{p-p}$ . |                |           | <div style="text-align: center;"> <p>⊙ VR206</p>  <p>V = 0.7V</p> </div>  |                               |               |



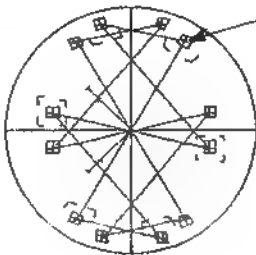
**13-13. Y/C INPUT Y LEVEL ADJUSTMENT (FINE)**  
**(FOR AU-65H / AU-65)**

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                 | ADJUSTMENT       |
|---|----------------|-----------|--|------------------------------|------------------|
| VIDEO 2<br>OUT  | E-E<br>(EJECT) | -----     | WAVEFORM<br>MONITOR  | Y/C IN<br>COLOUR BAR<br>100% | VR206 (4P Y LEV) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   |                |           | <p>The following adjustments should be completed before this adjustment is done.<br/>Please confirm them.</p> <ol style="list-style-type: none"> <li>1) COMPOSITE Y INPUT LEVEL ADJUSTMENT (3-17)</li> <li>2) Y NON LINEAR DE-EMPHASIS LEVEL (7-14)</li> <li>3) Y NON LINEAR PRE-EMPHASIS LEVEL (7-21)</li> <li>4) Y FM DEVIATION (7-26)</li> <li>5) Y A/D PEDESTAL VOLTAGE (9-2)</li> <li>6) Y A/D INPUT GAIN (9-4)</li> <li>7) VIDEO 2 OUT LEVEL (9-13)</li> </ol> |                              |                  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. VIDEO VR : Push In to PRESET POSITION</li> <li>2. Adjust VR206 so that the Video Level (V) becomes 0.7V (<math>\pm 2\%</math>).</li> </ol> |                |           | <p>⊙ VR206</p>  <p>V = 0.7V (<math>\pm 2\%</math>)</p>   |                              |                  |

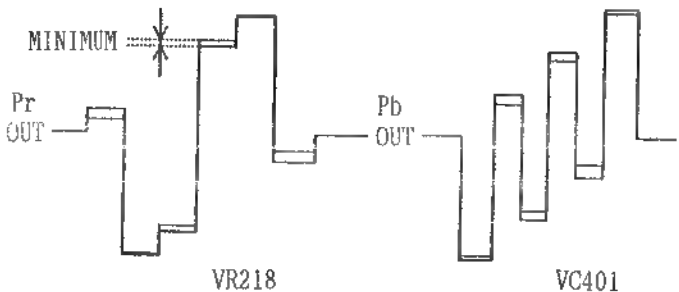
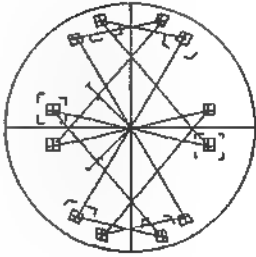
13-14. COMPONENT INPUT VECTOR ADJUSTMENT (FINE)  
(FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT       |
|---|----------------|-----------|--|---------------------------------|------------------|
| VIDEO 2<br>OUT  | E-E<br>(EJECT) | -----     | VECTOR SCOPE   | COMPONENT<br>COLOUR BAR<br>100% | VR502 (Pb LEV 2) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   |                |           | <p>The following adjustments should be completed before this adjustment is done.</p> <p>1) C DEVIATION CONFIRMATION (7-34)<br/>2) VIDEO OUTPUT VECTOR (9-17)</p> |                                 |                  |
| <p>Step 2.</p> <p>1. Connect the vector scope to signal generator, and set the vector scope the burst level 100%.</p> <p>2. Reconnect the vector scope to VIDEO 2 OUT on the Rear Panel.</p> <p>3. Adjust VR502 so that the each Vector is within its inner box on the Vector scope. (2%)</p> |                |           | <p>VIDEO 2<br/>OUT<br/>○ VR502</p>  <p>100%</p>                               |                                 |                  |

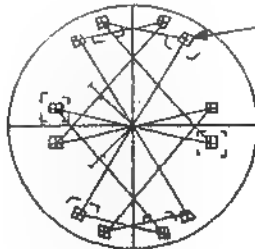
**13-15. LINE INPUT VECTOR ADJUSTMENT (FINE)**  
**(FOR AU-65H / AU-65)**

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                  | ADJUSTMENT  |
|---|----------------|-----------|---|-------------------------------|---|
| VIDEO 2<br>OUT<br>COMPONENT<br>Pb, Pr OUT   | E-E<br>(EJECT) | -----     | VECTOR SCOPE<br><br>WAVEFORM<br>MONITOR   | LINE IN<br>COLOUR BAR<br>100% | VR213 (Pb LEV 1)<br>VR215 (Pr LEV 1)<br>VR218 (AXIS PHASE)<br>VC401 |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   |                |           | <p>1. The following adjustments should be completed before this adjustment is done.</p> <p>1) C DEVIATION CONFIRMATION (7-34)</p> <p>2) VIDEO OUTPUT VECTOR (9-17)</p> <p>3) COMPONENT INPUT VECTOR (13-14)</p> <p>2. VIDEO VR : Push In to PRESET POSITION</p> |                               |   |
| <p>Step 2.</p> <p>1. Connect the waveform monitor to COMPONENT Pb and Pr OUT.</p> <p>2. Adjust VR218 and VC401 so that the clouble portion of waveoform is minimum.</p>   |                |           |    |                               |   |
| <p>Step 3.</p> <p>1. Connect the vector scope to signal generator, and set the vector scope the burst level 100%.</p> <p>2. Reconnect the vector scope to VIDEO 2 OUT on the Rear Panel.</p> <p>3. Adjust VR213 and VR215 so that the each Vector is within its inner box on the Vector Scope. (2%)</p> |                |           |  <p>100%</p>  |                               |   |

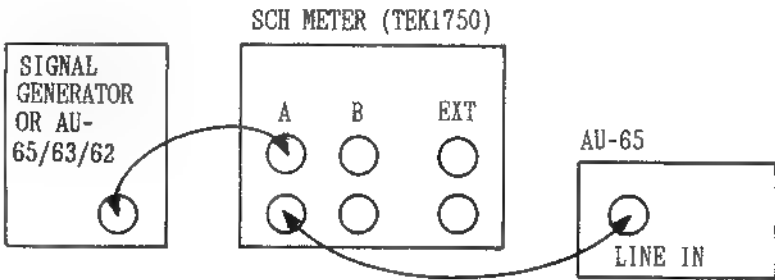
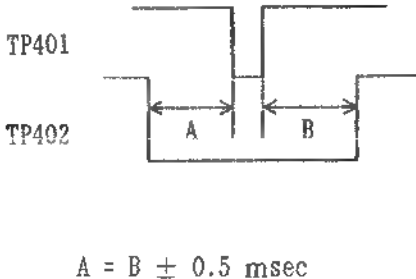
**13-16. Y/C INPUT VECTOR ADJUSTMENT (FINE)**  
(FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                 | ADJUSTMENT       |
|---|----------------|-----------|---|------------------------------|------------------|
| VIDEO 2<br>OUT  | E-E<br>(EJECT) | -----     | VECTOR SCOPE  | Y/C IN<br>COLOUR BAR<br>100% | VR201 (4P C LEV) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   |                |           | <p>1. The following adjustments should be completed before this adjustment is done.</p> <p>1) C DEVIATION CONFIRMATION (7-34)</p> <p>2) VIDEO OUTPUT VECTOR (9-17)</p> <p>3) COMPONENT INPUT VECTOR (13-14)</p> <p>4) LINE INPUT VECTOR (13-15)</p> <p>2. INPUT SELECT : Y/C side<br/>(on Pull Out Drawer)</p> <p>3. YC/COMPONENT SELECT : YC side<br/>(on Front Sub Panel)</p> |                              |                  |
| <p>Step 2.</p> <p>1. Connect the vector scope to signal generator, and set the vector scope the burst level 100%.</p> <p>2. Reconnect the vector scope to VIDEO 2 OUT on the Rear Panel.</p> <p>3. Adjust VR201 so that the each vector is within its inner box on the vector scope. (2%)</p> |                |           | <p>VIDEO 2<br/>OUT</p> <p>⊙ VR201</p>    |                              |                  |

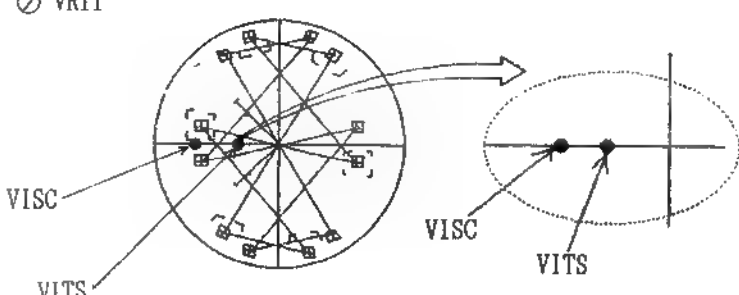
**13-17. SCH ADJUSTMENT**  
**(FOR AU-65H / AU-65)**

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                            | ADJUSTMENT     |
|---|----------------|-----------|--|---|----------------|
| TP401<br>TP402  | E-E<br>(EJECT) | -----     | SCH METER<br>(TEK 1751)<br><br>OSCILLOSCOPE  | LINE IN<br>COMPOSITE SIGNAL<br>(SCH 0°) | VR401 (SCH - ) |
| <p>Step 1.</p> <p>CONNECTION METHOD</p>   |                |           |    |   |                |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. STD/NSTD SELECT : STD<br/>(on Set Up Menu &amp; Front Sub Panel)</li> <li>2. SCH METER (METER 1751) : SCH Mode</li> <li>3. Adjust SIGNAL GEN or another Mil VTR so that the SCH phase becomes <math>\pm 0^\circ</math>.</li> <li>4. Connect the oscilloscope to TP401 and TP402.</li> <li>5. Adjust VR401 so that the (A) equal (B) as shown in figure.</li> </ol> |                |           |  <p><math>A = B \pm 0.5 \text{ msec}</math></p> |   |                |

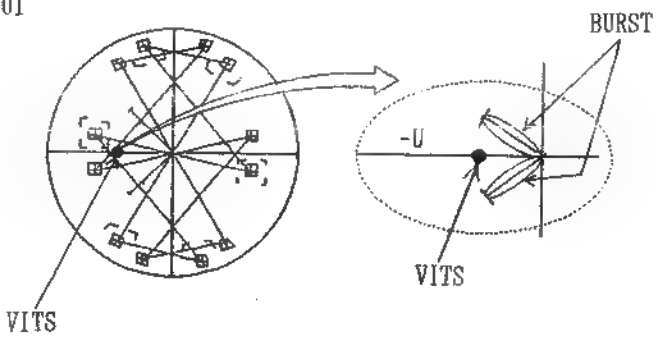
# 13-18. VISC PHASE ADJUSTMENT (FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL  | ADJUSTMENT    |
|--|----------------|-----------|---|---|---------------|
| VIDEO 2<br>OUT   | E-E<br>(EJECT) | -----     | SCH METER<br>(VECTOR Mode)  | LINE IN<br>COLOUR BAR<br>(with VIR Signal<br>that have Pb<br>axis SC) | VR11 (VSC ○ ) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>  |                |           | <ol style="list-style-type: none"> <li>1. TBC &amp; SYNC GEN (W1) Adjustment should be completed.</li> <li>2. ENCODER (W2) Adjustment should be completed.</li> <li>3. SW7 (on W1) : OFF</li> <li>4. STD/NSTD SELECT : STD<br/>(Set-up Menu No. 1011 → 00 FRONT SWITCH)<br/>(Input Signal is standard from signal generator)</li> </ol> |   |               |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. VECTOR SCOPE : VIDEO 2 OUT</li> <li>2. Confirm that the VISC signal phase is same as VIR (Pb axis Sub Carrier) signal phase as shwon in figure.<br/>(<math>\pm 2^\circ</math>)</li> <li>3. If it is not, readjust VR11 so that the each phase becomes same phase.</li> <li>4. SW7 (on W1) : ON</li> </ol> |                |           | <p>⊙ VR11</p>  <p>VISC PHASE &amp; VIR PHASE should be the same</p>  |   |               |

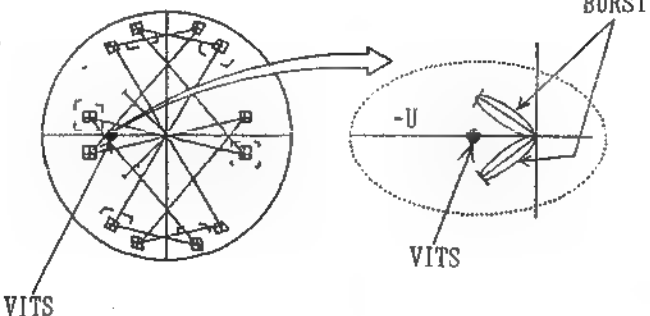
13-19. 13.5 MHz PLL ADJUSTMENT (1)  
(FOR AU-65H / AU-65)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL  | ADJUSTMENT           |
|--|----------------|-----------|--|---|----------------------|
| VIDEO 2<br>OUT   | E-E<br>(EJECT) | -----     | VECTOR SCOPE   | LINE IN<br>COLOUR BAR<br>(with VIR Signal<br>that have Pb<br>axis SC) | VR701 (SYNC $\phi$ ) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>  |                |           | <ol style="list-style-type: none"> <li>1. TBC &amp; SYNC GEN (W1) Adjustment should be completed before this adjustment is done.</li> <li>2. ENCODER (W2) Adjustment should be completed. before this adjustment is done.</li> <li>3. STD/NSTD SELECT : NSTD<br/>(Set-up Menu No. 1011 <math>\rightarrow</math> 01 NON-STD)</li> <li>4. SW7 (on W1) : OFF</li> </ol> |   |                      |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. VECTOR SCOPE : VIDEO 2 OUT</li> <li>2. Set the vector scope burst, level 100% and burst phase on the burst line of the vector scope.</li> <li>3. Confirm that the VIR (Pb axis Sub Carrier) Phase is VIR Phase = U axis.</li> <li>4. If it is not, adjust VR701 so that the VIR Phase is on U axis.<br/>(Phase Difference = <math>0 \pm 2^\circ</math>)</li> <li>5. SW7 (on W1) : ON</li> </ol> |                |           | <p>VIDEO 2 OUT</p> <p>⊙ VR701</p>   |   |                      |

13-20. 13.5 MHz PLL ADJUSTMENT (2)  
(FOR AU-65H / AU-65)

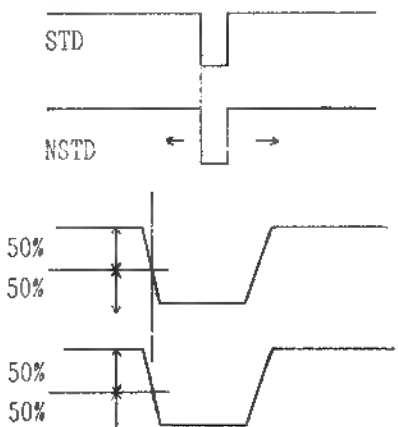
( W4 DEC & CTCM )

| TEST POINT  | MODE        | TAPE USED | M.EQ.   | INPUT SIGNAL   | ADJUSTMENT        |
|---|-------------|-----------|---|--|-------------------|
| VIDEO 2 OUT   | E-E (EJECT) | -----     | VECTOR SCOPE  | LINE IN COLOUR BAR<br>(with VIR Signal that have Pb axis SC) | VR703 (PLL POS 2) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   |             |           | <ol style="list-style-type: none"> <li>1. TBC &amp; SYNC GEN (W1) Adjustment should be completed before this adjustment is done.</li> <li>2. ENCODER (W2) Adjustment should be completed before this adjustment is done.</li> <li>3. STD/NSTD SELECT : STD<br/>(Set-up Menu No. 1101 → 00 FRONT SWITCH)<br/>(Input signal is standard from signal generator)</li> <li>4. SW7 (on W1) : OFF</li> </ol> |  |                   |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. VECTOR SCOPE : VIDEO 2 OUT</li> <li>2. Set the vector scope, burst level 100% and burst phase on the burst line of the vector scope.</li> <li>3. Confirm that the VIR (Pb axis sub Carrier) Phase is VIR Phase = -U axis.</li> <li>4. If it is not, adjust VR703 so that the VIR is on U axis.<br/>(Phase Difference = <math>0 \pm 2^\circ</math>)</li> <li>5. SW7 (on W1) : ON</li> </ol> |             |           | <p>VIDEO 2 OUT</p> <p>⊙ VR703</p>    |  |                   |



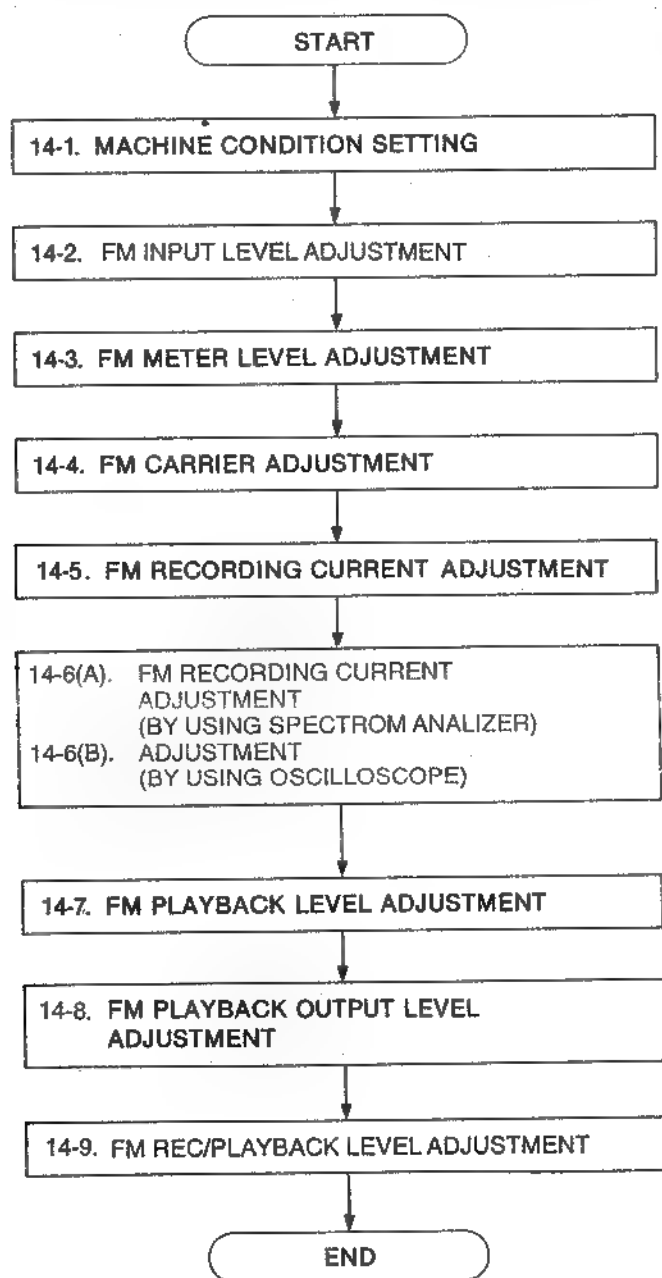
**13-21. 13.5 MHz PLL ADJUSTMENT (3)**  
**(FOR AU-65H / AU-65)**

( W4 DEC & CTCM )

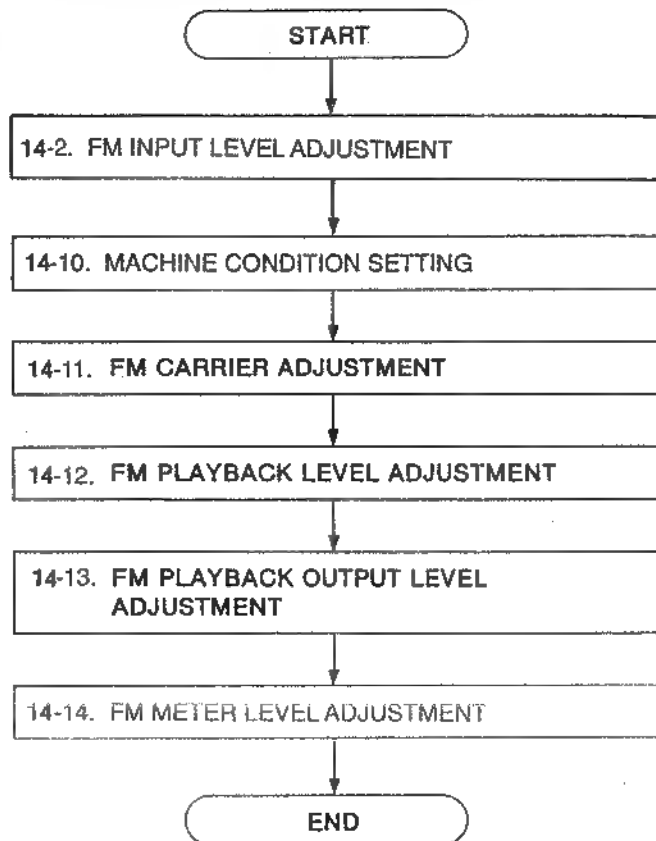
| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL          | ADJUSTMENT                                |
|---|----------------|-----------|--|-----------------------|---|
| TP703   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | LINE IN<br>COLOUR BAR | VR702 (PLL POS 1)<br>SW800 (VISC CONT SW) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   |                |           | <p>1. TBC &amp; SYNC GEN (W1) Adjustment should be completed before this adjustment is done.</p> <p>2. ENCODER (W2) Adjustment should be completed before this adjustment is done.</p> <p>3. STD/NSTD SELECT : STD<br/>           (Set-up Menu No. 1011 → 00 FRONT SWITCH)<br/>           (Input Signal is standard from Signal generator)</p> |                       |   |
| <p>Step 2.</p> <p>1. SCOPE : TP703</p> <p>2. Trigger the scope with the composite sync out of the signal generator.</p> <p>3. Memorize the sync position in STD mode.</p> <p>4. STD/NSTD SELECT : NSTD<br/>           (Set-up Menu No. 1011 → 01 NON-STD)</p> <p>5. Confirm that the sync position of NSTD mode is same as STD mode.</p> <p>6. If it is not, adjust VR702 so that the NSTD sync position is same as STD sync position.</p> <p>7. After adjustment SW800 (W2) set "ON" mode.</p> |                |           | <p>TP703</p> <p>⊙ VR702</p>   |                       |   |

## 14. AUDIO (W6) BOARD (2/2)

### FM AUDIO SECTION (W6) FLOWCHART FOR AU-65H/AU-65



### FM AUDIO SECTION (W6) FLOWCHART FOR AU-63H/AU-63, AU-62H/AU-62



## 14. AUDIO (W6) BOARD (2/2)

### — FM AUDIO SECTION —

#### 14-1. MACHINE CONDITION SETTING (FOR AU-65H / AU-65 FM AUDIO)

Set the switches on the Front Panel as shown except certain steps.  
(See Machine Condition).

|  |       |             |
|--|-------|-------------|
| PB VR  | ----- | PRESET side |
| METER SELECT                                   | ----- | FM          |
| MODE   | ----- | E-E         |
| INPUT LEVEL SELECT ( on the Audio I/O Board )  | ----- | +0dBu       |
| OUTPUT LEVEL SELECT ( on the Audio I/O Board ) | ----- | +0dBu       |

#### 14-2. FM INPUT LEVEL ADJUSTMENT

( W6 AUDIO )

| TEST POINT  | MODE           | TAPE USED | M.EQ. | INPUT SIGNAL                              | ADJUSTMENT                                |
|---|----------------|-----------|-------|---|---|
| TP702 (CH3)<br>TP802 (CH4)  | E-E<br>(EJECT) | -----     | VTVM  | 1KHz Sinewave<br>Signal 0dBu<br>(CH3/CH4) | VR9 (AUDIO VR CH3)<br>VR13 (AUDIO VR CH4) |
| Step 1.<br><br>VTVM : TP702 (CH3)<br>TP802 (CH4)<br><br>1. Adjust VR9 so that the CH3 audio level<br>at TP702 is -16.0dBV $\pm$ 0.5dBV.<br>2. Adjust VR13 so that the CH4 audio level<br>at TP802 is -16.0dBV $\pm$ 0.5dBV. |                |           |       |   |   |

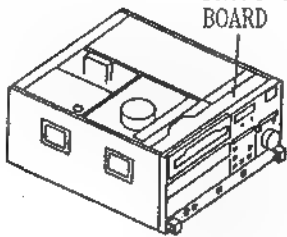
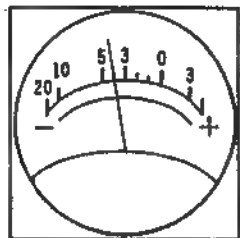
### 14-3. FM E-E OUTPUT LEVEL ADJUSTMENT (FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT   | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL                     | ADJUSTMENT                           |
|--|-------|-----------|---|----------------------------------|--------------------------------------|
| CH3<br>LINE OUT<br><br>CH4<br>LINE OUT             | EJECT | -----     | VTVM  | 1KHz Sinewave<br>Signal<br>+0dBu | VR701 (CH3 EE)<br><br>VR801 (CH4 EE) |
| Step 1.<br>MACHINE CONDITION                       |       |           | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1). |                                  |                                      |
| Step 2.<br><br>VTVM : CH3 LINE OUT<br>CH4 LINE OUT |       |           | SPECIFICATION : +0dBu $\pm$ 0.2dB   |                                  |                                      |

### 14-4. FM METER LEVEL ADJUSTMENT (FOR AU-65H / AU-65)

( FRONT I/F BOARD )

| TEST POINT  | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL                    | ADJUSTMENT   |
|---|-------|-----------|---|---------------------------------|--|
| CH3<br>METER<br><br>CH4<br>METER  | EJECT | -----     | -----   | 1KHz Sinewave<br>Signal<br>0dBu | VR103 (CH3 METER)<br>on Front Interface Board<br>VR104 (CH4 METER)<br>on Front Interface Board |
| Step 1.<br>MACHINE CONDITION  |       |           | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1).   |                                 |  |
| Step 2.<br><br>1. Adjust VR103 (CH1) and VR104 (CH3) on<br>the Front Interface Board so that the<br>meter indicates "-4" VU as shown. |       |           | <div style="display: flex; align-items: center;"> <div style="text-align: center;">  <p>FRONT INTERFACE<br/>BOARD</p> </div> <div style="margin-left: 20px;"> <p>⊗ VR103</p> <p>⊗ VR104</p> </div> <div style="margin-left: 20px;">  </div> </div> |                                 |  |

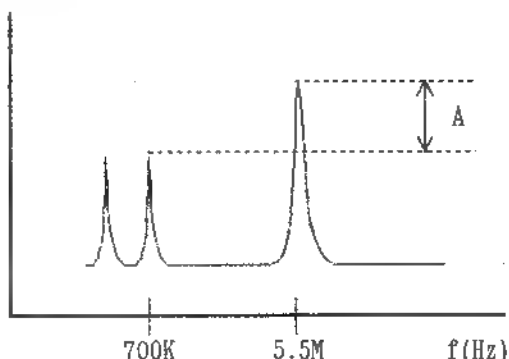
# 14-5. FM CARRIER ADJUSTMENT (FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT  | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                             |
|---|-------|-----------|--|--------------|--|
| TP704<br>(CH3)<br><br>TP804<br>(CH4)                          | EJECT | -----     | FREQUENCY<br>COUNTER   | -----        | VR704<br>(CH3 FO)<br>VR804<br>(CH4 FO) |
| Step 1.<br>MACHINE CONDITION                                  |       |           | Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 14-1). |              |  |
| Step 2.<br><br>Frequency Counter : TP704 (CH3)<br>TP804 (CH4) |       |           | SPECIFICATION : TP704 = 400KHz $\pm$ 1KHz<br>TP804 = 700KHz $\pm$ 1KHz                           |              |  |

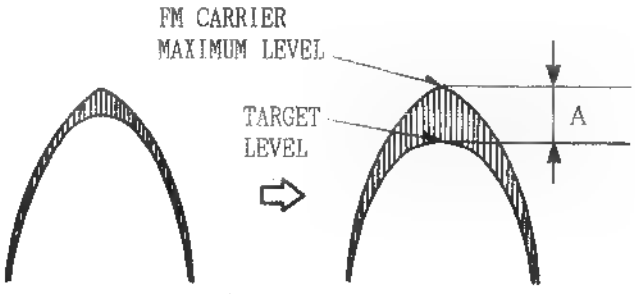
# 14-6(A) . FM RECORDING CURRENT ADJUSTMENT (BY USING SPECTRUM ANALYZER) (FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT   | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                                 | ADJUSTMENT       |
|--|-------|-----------|--|--|------------------|
| TP2<br>on RA & HA<br>P. C. Board   | EJECT | -----     | SPECTRUM<br>ANALYZER   | COMPOSITE<br>50% FLAT FIELD<br>TO LINE INPUT | VR901 (FM CURR.) |
| Step 1.<br><br>MACHINE CONDITION   |       |           | 1. Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 14-1).<br>2. The Video Head must be degaussed with a magnetic eraser.<br>3. The C REC CURRENT ADJ. (12-13 and 12-14) should be completed. |  |                  |
| Step 2.<br><br>1. ANALYZER : TP2 (on RA & HA P.C.B.)<br><br>2. Adjust VR901 so that the FM Carrier Level is -27dB $\pm$ 0.5dB against the chroma carrier level as shown. |       |           |  <p style="text-align: center;">A = -27dB <math>\pm</math> 0.5dB</p>   |  |                  |

**14-6(B) . FM RECORDING CURRENT ADJUSTMENT  
(BY USING OSCILLOSCOPE)  
(FOR AU-65H / AU-65)**

( W6 AUDIO )

| TEST POINT   | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL                                 | ADJUSTMENT       |
|--|-------|-----------|---|--|------------------|
| TP2<br>on RA & HA<br>P. C. Board   | EJECT | -----     | OSCILLOSCOPE  | COMPOSITE<br>50% FLAT FIELD<br>TO LINE INPUT | VR901 (FM CURR.) |
| Step 1.<br><br>MACHINE CONDITION   |       |           | 1. Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1).<br>2. The C REC CURRENT ADJ. (12-13 and 12-14) should be<br>completed. |  |                  |
| Step 2.<br><br>SCOPE CONDITION   |       |           | VOLTS/DIV. = 50mV or 20mV<br>TIME /DIV. = 20nsec<br>BAND FILTER = OFF   |  |                  |
| Step 3.<br><br>SCOPE : TP2 (on RA & HA P.C.B.)<br><br>1. VR901 : Fully Clockwise<br><br>2. Adjust VR901 so that the FM Carrier<br>(A) level becomes $35\text{mV} \pm 5\text{mVp-p}$ as<br>shown. |       |           |  <p style="text-align: center;"><math>A = 35 \pm 5\text{mVp-p}</math></p>                  |  |                  |

**14-7. FM PLAYBACK LEVEL ADJUSTMENT**  
(FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT   | MODE | TAPE USED                                | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                       |
|--|------|--|---|--------------|----------------------------------|
| TP702<br>TP802   | PLAY | ALIGNMENT<br>TAPE<br>1KHz OVU<br>PORTION | VTVM  | -----        | VR703 (CH3 PB)<br>VR803 (CH4 PB) |
| Step 1.<br>MACHINE CONDITION<br><br>VTVM CONDITION   |      |  | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition<br>14-1).<br>FILTER : 20KHz L.P.F. (DIN AUDIO) |              |                                  |
| Step 2.<br><br>1. Play back the 1KHz OVU portion of the<br>Alignment Tape.<br><br>2. Adjust VR703 and VR803 so that the<br>TP702 and TP802 becomes -16dB $\pm$<br>0.2dB. |      |  | ① VR703<br>VR803<br><br>SPECIFICATION : -16dB $\pm$ 0.2dB   |              |                                  |

**14-8. FM PLAYBACK OUTPUT LEVEL ADJUSTMENT**  
(FOR AU-65H / AU-65)

( FRONT I/F BOARD )

| TEST POINT  | MODE | TAPE USED         | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|---|------|-------------------|--|--------------|--|
| CH3<br>LINE OUT<br><br>CH4<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE | VTVM   | -----        | VR12 (CH3 PB LEVEL)<br>(on Front I/F Board)<br>VR13 (CH4 PB LEVEL)<br>(on Front I/F Board) |
| Step 1.<br>MACHINE CONDITION  |      |                   | 1. Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1).<br>2. FM AUDIO PB LEVEL SW (CH3 & CH4) : PRESET<br>(on Front Interface Board) |              |  |
| Step 2.<br><br>1. Play back the 1KHz OVU portion of the<br>Alignment Tape.<br><br>2. Adjust VR12 and VR13 so that the CH3<br>and CH4 PB LEVEL is +0dBu $\pm$ 0.2dB. |      |                   | ① VR 12/13 (on Front I/F Board)<br><br>SPECIFICATION : +0dBu $\pm$ 0.2dB   |              |  |

**14-9. FM REC/PLAYBACK LEVEL CONFIRMATION**  
(FOR AU-65H / AU-65)

( W6 AUDIO )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL                     | ADJUSTMENT                               |
|--|------------------|------------|---|----------------------------------|--|
| CH3<br>LINE OUT<br><br>CH4<br>LINE OUT   | SELF<br>REC/PLAY | BLANK TAPE | VTVM  | 1KHz Sinewave<br>Signal<br>+0dBu | VR705 (CH3 DEV.)<br><br>VR805 (CH4 DEV.) |
| Step 1.<br>MACHINE CONDITION   |                  |            | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1). |                                  |  |
| Step 2.<br><br>1. Make a recording for a few minutes.<br><br>2. Play back the just recorded portion.<br><br>3. Confirm that the Line Output Level is<br>+0dBu $\pm$ 0.2dB.<br><br>4. If it is not, adjust VR705 and VR805 and<br>repeat from Item 1 to Item 3 until the<br>output level becomes +0dBu $\pm$ 0.2dB. |                  |            | SPECIFICATION : +0dBu $\pm$ 0.2dB   |                                  |  |

**14-10. MACHINE CONDITION SETTING**  
(FOR AU-63H/62H AU-63/62 FM AUDIO)

Set the switches on the Front Panel as follows except special condition.

PB VR ----- PRESET side  
METER SELECT ----- FM  
OUTPUT LEVEL SELECT ( on the Audio I/O Board ) ----- +0dBu



**14-11. FM CARRIER ADJUSTMENT**  
(FOR AU-62H/63H and AU-62/63)

( W6 AUDIO )

| TEST POINT  | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                             |
|---|-------|-----------|--|--------------|--|
| TP704<br>(CH3)<br><br>TP804<br>(CH4)                          | EJECT | -----     | FREQUENCY<br>COUNTER   | -----        | VR704<br>(CH3 PO)<br>VR804<br>(CH4 PO) |
| Step 1.<br>MACHINE CONDITION                                  |       |           | 1. Refer to Set Up Conditions at 14-10 Machine Condition Setting.<br>2. Short a jumper wire between TP902 and TP903. |              |  |
| Step 2.<br><br>Frequency Counter : TP704 (CH3)<br>TP804 (CH4) |       |           | SPECIFICATION : TP704 = 400KHz $\pm$ 1KHz<br>TP804 = 700KHz $\pm$ 1KHz   |              |  |

**14-12. FM PLAYBACK LEVEL ADJUSTMENT**  
(FOR AU-62H/63H and AU-62/63)

( W6 AUDIO )

| TEST POINT  | MODE | TAPE USED                     | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                           |
|---|------|-------------------------------|--|--------------|--------------------------------------|
| CH3<br>TP702<br><br>CH4<br>TP802  | PLAY | ALIGNMENT<br>TAPE<br>1KHz OVU | VTVM   | -----        | VR703 (CH3 PB)<br><br>VR803 (CH4 PB) |
| Step 1.<br>MACHINE CONDITION  |      |                               | Refer to Set Up Conditions at 14-10 Machine Condition Setting. |              |                                      |
| Step 2.<br><br>1. Play back the 1KHz OVU portion of the Alignment Tape.<br><br>2. Adjust VR703 and VR803 so that the Line output level becomes -16dB $\pm$ 0.2dB. |      |                               | ⑦ VR703<br>VR803<br><br>SPECIFICATION : -16dB $\pm$ 0.2dB      |              |                                      |

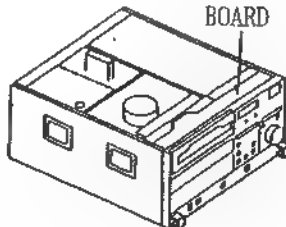
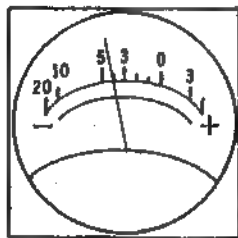
### 14-13. FM PLAYBACK OUTPUT LEVEL ADJUSTMENT (FOR AU-62H/63H and AU-62/63)

( W6 AUDIO )

| TEST POINT  | MODE | TAPE USED                        | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|---|------|----------------------------------|---|--------------|--|
| CH3<br>LINE OUT<br><br>CH4<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE<br>1KHz<br>OVU | VTVM  | -----        | VR12 (CH3 PB LEVEL)<br>(on Front I/F Board)<br>VR13 (CH4 PB LEVEL)<br>(on Front I/F Board) |
| Step 1.<br>MACHINE CONDITION  |      |                                  | 1. Refer to Set Up Conditions at 14-10 Machine Condition Setting.<br>2. FM AUDIO PB LEVEL SW (CH3 & CH4) : PRESET<br>(on Front Interface Board) |              |  |
| Step 2.<br><br>2. Play back the 1KHz OVU portion of the Alignment Tape.<br><br>3. Adjust VR12 and VR13 so that the CH3 and CH4 PB LEVEL is +0dBu $\pm$ 0.2dB. |      |                                  | Ⓐ VR 12 (on Front I/F Board)<br>Ⓑ VR 13<br><br>SPECIFICATION : +0dBu $\pm$ 0.2dB  |              |  |

### 14-14. FM METER LEVEL ADJUSTMENT (FOR AU-62H/63H and AU-62/63)

( W6 AUDIO )

| TEST POINT  | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                     | ADJUSTMENT   |
|---|-------|-----------|--|----------------------------------|--|
| CH3<br>METER<br><br>CH4<br>METER  | EJECT | -----     | -----  | 1KHz Sinewave<br>Signal<br>+0dBu | VR103 (CH3 METER)<br>on Front Interface Board<br>VR104 (CH4 METER)<br>on Front Interface Board |
| Step 1.<br>MACHINE CONDITION  |       |           | Refer to Set up Conditions at 14-10 Machine Condition Setting.   |                                  |  |
| Step 2.<br><br>1. Adjust VR103 (CH1) and VR104 (CH3) on the Front Interface Board so that the meter indicates "-4" VU as shown in figure. |       |           | <div style="display: flex; align-items: center;"> <div style="text-align: center;">  <p>FRONT INTERFACE BOARD</p> </div> <div style="margin-left: 20px;">           Ⓐ VR103<br/>           Ⓑ VR104         </div> <div style="margin-left: 20px;">  </div> </div> |                                  |  |

# 15. FRONT PANEL (FOR AU-63H/62H and AU-63/62)

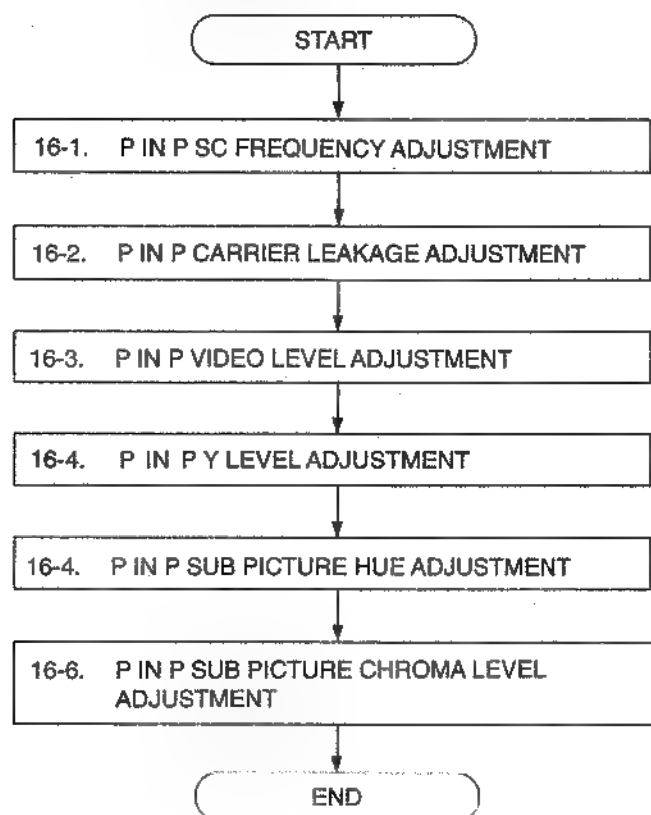
## 15-1. ALARM OSC & LEVEL ADJUSTMENT

( FRONT PANEL B )

| TEST POINT   | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                             |
|--|-------|-----------|---|--------------|--|
| TP14<br>TP15   | EJECT |           | OSCILLOSCOPE  | -----        | VR 1 (ALARM OSC)<br>VR 2 (ALARM LEVEL) |
| Step 1.<br>MACHINE CONDITION   |       |           | SW4 - 8 : ON<br>VR2 : Fully Counterclockwise  |              |  |
| Step 2.<br><br>Adjust VR1 so that the period A is $250\mu\text{sec.}$ ( $\pm 10\mu\text{sec.}$ ) as shown in figure. |       |           | <div> <div>⊙ VR1 TP14</div> </div>  |              |  |
| Step 3.<br><br>Confirm that the voltage level is from 4.5V to 4.7V as shown in figure.                               |       |           | <div> <div>⊙ VR2 TP15</div> </div>  |              |  |
| Step 4.<br><br>Set VR2 fully clockwise and confirm that the voltage level is from 2.5V to 2.7V as shown in figure.   |       |           | <div> <div>Large Level (Counterclockwise)</div> <div>Small Level (Clockwise)</div> </div> |              |  |
| Step 5.<br><br>Reset SW4-8 to OFF and reset VR2 fully counterclockwise to set the maximum audio level.               |       |           |   |              |  |

## 16. SENC & P IN P BOARD (AU-65H)

### SENC & P IN P FLOWCHART



## 16. SENC & P IN P BOARD (FOR AU-65H ONLY)

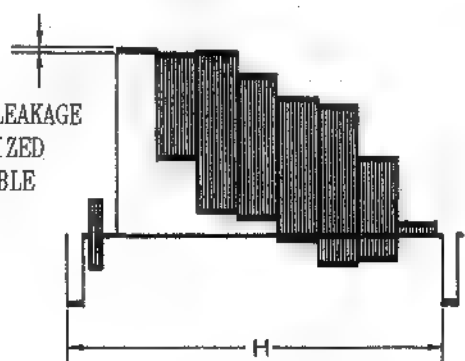
### 16-1. P IN P SC FREQUENCY ADJUSTMENT (FOR AU-65H)

( P IN P )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL   | ADJUSTMENT   |
|---|----------------|-----------|--|--|--------------|
| TP501<br>(IC505-9)  | E-E<br>(EJECT) | -----     | FREQUENCY<br>COUNTER   | COMPONENT 100%<br>COLOUR BAR<br>OR<br>LINE 100%<br>COLOUR BAR<br>WITHOUT BURST | VC501 (FREQ) |
| Step 1.<br>MACHINE CONDITION  |                |           | STD / NSTD SELECT : STD<br>(Set Up Menu)                             |  |              |
| Step 2.<br><br>1. Frequency Counter : TP501(IC505-9)<br>2. Adjust VC501 so that the reading of<br>frequency counter is $4433618 \pm 10\text{Hz}$ .<br>3. Confirm that the frequency in both<br>the component and line inputs. |                |           | TP501 $\odot$ VC501<br><br>SPECIFICATION : $4433618 \pm 10\text{Hz}$ |  |              |

### 16-2. P IN P CARRIER LEAKAGE ADJUSTMENT

( P IN P )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT                       |
|---|----------------|-----------|--|---------------------------------|----------------------------------|
| TP801   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100%<br>COLOUR BAR | VR801 (PR BAL)<br>VR802 (PR BAL) |
| Step 1.<br>MACHINE CONDITION  |                |           | STD / NSTD SELECT : STD<br>(Set Up Menu)   |                                 |                                  |
| Step 2.<br><br>1. SCOPE : TP801<br>2. Adjust VR801 and VR802 mutually and<br>nullify the carrier leakage. |                |           | TP801 $\odot$ VR801<br>$\odot$ VR802<br><br>CARRIER LEAKAGE<br>IS MINIMIZED<br>AS POSSIBLE<br> |                                 |                                  |

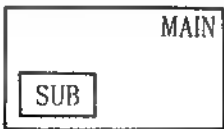
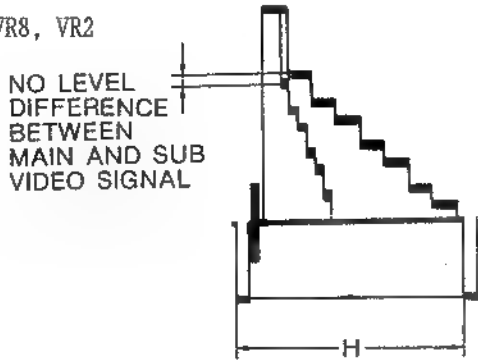
# 16-3. P IN P VIDEO LEVEL ADJUSTMENT

( P IN P )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL             | ADJUSTMENT   |
|---|----------------|-----------|--|--------------------------|--------------|
| VIDEO 3   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | LINE INPUT<br>COLOUR BAR | VR3 (V GAIN) |
| Step 1.<br><br>MACHINE CONDITION  |                |           | 1. STD / NSTD SELECT : STD<br>(Set Up Menu)<br>2. Set the VIDEO OUT3 SELECT (Item 2005) to P IN P position on the on-screen set-up menu and press each time the SYSTEM SET UP button on the B1 system control board so that the sub picture is placed at the bottom left as shown below.<br><div data-bbox="788 741 1007 866" data-label="Diagram"> </div> |                          |              |
| Step 2.<br><br>1. SCOPE : VIDEO 3<br>2. Confirm the following specifications.<br><br>Y LEVEL = $0.700 \pm 0.025V_{p-p}$ |                |           | VIDEO 3 $\odot$ VR3<br><br>Y LEVEL = $0.700 \pm 0.025V_{p-p}$<br><br><div data-bbox="1062 904 1410 1299" data-label="Figure"> </div>   |                          |              |

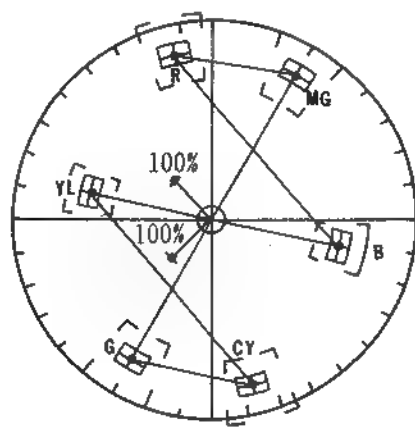
# 16-4. P IN P Y LEVEL ADJUSTMENT

( P IN P )

| TEST POINT                        | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL             | ADJUSTMENT                  |
|-----------------------------------|----------------|-----------|--|--------------------------|-----------------------------|
| VIDEO 3                           | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | LINE INPUT<br>COLOUR BAR | VR8 (Y GAIN)<br>VR2 (CLAMP) |
| Step 1.<br><br>MACHINE CONDITION  |                |           | 1. Set the VIDEO OUT3 SELECT (Item 2005) to P IN P position on the on-screen set up menu and press each time the SYSTEM SET UP button on the B1 System Control board so that the sub picture is placed at the bottom left as shown below.<br><br> |                          |                             |
| Step 2.<br><br>1. SCOPE : VIDEO 3 |                |           | VIDEO 3    ⊗ VR8, VR2<br><br>   |                          |                             |

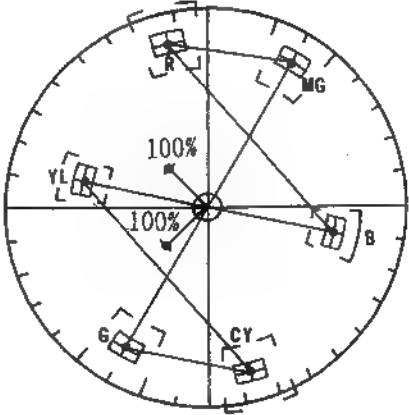
# 16-5. P IN P SUB PICTURE HUE ADJUSTMENT

( P IN P )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL             | ADJUSTMENT |
|--|----------------|-----------|--|--------------------------|------------|
| VIDEO 3  | E-E<br>(EJECT) | -----     | VECTORSCOPE  | LINE INPUT<br>COLOUR BAR | VR7 (HUE)  |
| Step 1.<br><br>1. Adjust VR7 so that the each vector phase of main picture and sub picture fall within the 10% standard box of the vectorscope and are the same phase. |                |           | VIDEO 3    ⊗ VR7<br><br> |                          |            |

# 16-6. P IN P SUB SCREEN CHROMA LEVEL ADJUSTMENT

( P IN P )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL             | ADJUSTMENT   |
|--|----------------|-----------|---|--------------------------|--------------|
| VIDEO 3  | E-E<br>(EJECT) | -----     | VECTORSCOPE   | LINE INPUT<br>COLOUR BAR | VR9 (C GAIN) |
| Step 1.<br><br>1. Adjust VR9 so that the each vector phase of main picture and sub picture fall within the 10% standard box of the vectorscope and the same phase. |                |           | VIDEO 3    ⊗ VR9<br><br> |                          |              |



17. TIME CODE GEN & READER (B2) BOARD  
 (AU-65H, 63H and 62H have been installed  
 with a TCG/TCR in standard)

17-1. TRIMMER ADJUSTMENT

( B2 TCG/TCR )

| TEST POINT  | MODE  | TAPE USED | M.EQ.                              | INPUT SIGNAL | ADJUSTMENT |
|---|-------|-----------|------------------------------------|--------------|------------|
| TP 6  | EJECT | -----     | FREQUENCY<br>COUNTER               | -----        | C19        |
| 1. Confirm that the frequency at TP6 is<br>$512.000 \pm 0.002\text{Hz}$ .<br><br>2. If it is not specification, adjust C19<br>as mentioned above. |       |           | TP6 : $512.000 \pm 0.002\text{Hz}$ |              |            |

# Service Manual

**Panasonic MII**

*Operating Instructions  
Feature and Technical Explanation  
Maintenance and Mechanical  
Adjustment Procedures  
Electrical Adjustment Procedures  
Block Diagrams  
Schematic Diagrams  
Printed Circuit Board Diagrams  
Exploded Views  
Replacement Parts Lists*

STUDIO VTR

**AU-65**

STUDIO PLAYER

**AU-63**

STUDIO PLAYER

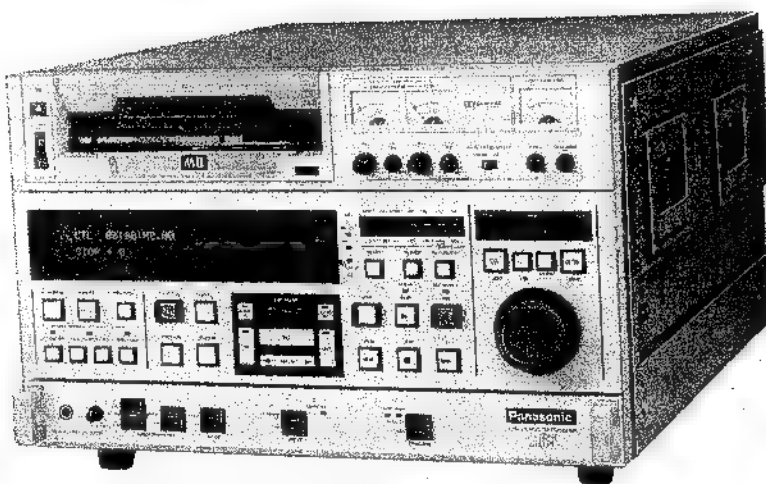
**AU-62**

TIME CODE GENERATOR/READER

**AU-F65**

50PIN PARALLEL REMOTE CONNECTOR

**AU-MK25**



MODEL: AU-65

NTSC/PAL

**Revision 1**

**Panasonic**

# OPERATING INSTRUCTIONS

This instruction is just an over-view.  
Detailed procedures are supplied in the operating  
instructions for the AU-65, AU-63 and AU-62.

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# Specifications

|  |                                      | NTSC  |         |         | PAL  |           |           |  |
|--|--------------------------------------|---|---------|---------|--|-----------|-----------|--|
|  |                                      | AU-65-P   | AU-63-P | AU-62-P | AU-65-E/B  | AU-63-E/B | AU-62-E/B |  |
| General                                    |                                      |   |         |         |  |           |           |  |
| Power Supply                               |                                      | 120 V AC, 50/60 Hz  |         |         | 100~240 V AC, 50/60 Hz                               |           |           |  |
| Power Consumption                          |                                      | 180 W   | 140 W   |         | 180 W  | 140 W     |           |  |
| Recording/Playback System                  |                                      | MII format, 4 rotary heads, 2-tack helical scanning             |         |         |  |           |           |  |
| Tape Speed                                 |                                      | 67.693 mm/sec.  |         |         | 66.295 mm/sec.                                       |           |           |  |
| Tape                                       |                                      | 1/2-inch metal particle tape                                    |         |         |  |           |           |  |
| Recording Time                             |                                      | 90 minutes (with AU-M90L tape)                                  |         |         | 97 minutes (with AU-M90L tape)                       |           |           |  |
| FF/REW Time                                |                                      | Less than 3 minutes (with AU-M60L tape)                         |         |         |  |           |           |  |
| Operating Temperature                      |                                      | 41°F to 104°F/5°C to 40°C                                       |         |         |  |           |           |  |
| Operating Humidity                         |                                      | 35%~80%   |         |         | Under 80%  |           |           |  |
| Dimensions (W×H×D)                         |                                      | 17½"×11⅞"×22⅞"/444×291×574 mm                                   |         |         |  |           |           |  |
| Weight                                     |                                      | 75.3 lbs  | 75 lbs  |         | 34 kg  | 32 kg     |           |  |
| Video                                      |                                      |   |         |         |  |           |           |  |
| Television Format                          |                                      | NTSC: 525 lines, 59.94 fields                                   |         |         | PAL: 625 lines, 50 fields                            |           |           |  |
| Y Modulation System                        |                                      | Frequency modulation  |         |         |  |           |           |  |
| C Modulation System                        |                                      | Time compressed multiplexing (P <sub>B</sub> , P <sub>R</sub> ) |         |         |  |           |           |  |
| Bandwidth Component                        | Y                                    | 30 Hz~4.5 MHz +1.0/-4.0 dB                                      |         |         | 25 Hz~5.5 MHz +1.0/-4.0 dB                           |           |           |  |
|  | C (P <sub>B</sub> , P <sub>R</sub> ) | 30 Hz~1.5 MHz +0.5/-3.0 dB                                      |         |         | 25 Hz~2.0 MHz +1.0/-4.0 dB                           |           |           |  |
| S/N Ratio Component                        | Y                                    | Better than 49 dB<br>(200 kHz~4.2 MHz WIDE BAND)                |         |         | Better than 46 dB<br>(200 kHz~5 MHz, SC trap OFF)    |           |           |  |
|  | C                                    | Better than 50 dB (AM+PM)<br>(1 kHz~500 kHz)                    |         |         | Better than 48 dB (AM)/50 dB (PM)<br>(1 kHz~500 kHz) |           |           |  |
| Y/C Delay                                  |                                      | Less than 20 ns   |         |         |  |           |           |  |
| K Factor                                   |                                      | Less than 2%  |         |         |  |           |           |  |
| Differential Gain                          |                                      | Less than 3%  |         |         |  |           |           |  |
| Differential Phase                         |                                      | Less than 3%  |         |         |  |           |           |  |
| Linearity (Component)                      |                                      | Less than 3%  |         |         |  |           |           |  |
| Audio (Recording only)<br>Linear (CH1/CH2) |                                      |   |         |         |  |           |           |  |
| Frequency Response                         |                                      | 50 Hz~15 kHz +2.0 dB/-3.0 dB                                    |         |         |  |           |           |  |
| S/N Ratio                                  |                                      | Better than 56 dB (Dolby NR OFF)                                |         |         |  |           |           |  |
| Distortion                                 |                                      | Less than 1% at 1 kHz standard input level                      |         |         |  |           |           |  |
| Cross Talk                                 |                                      | Less than -65 dB at 1 kHz standard input level                  |         |         |  |           |           |  |
| Wow and Flutter                            |                                      | Less than 0.15% rms   |         |         | Less than 0.15% (DIN WTD)                            |           |           |  |
| FM (CH3/CH4)                               |                                      |   |         |         |  |           |           |  |
| Frequency Response                         |                                      | 20 Hz~20 kHz +1/-2 dB   |         |         |  |           |           |  |
| Dynamic Range                              |                                      | More than 80 dB   |         |         |  |           |           |  |
| Distortion                                 |                                      | Less than 0.5% at 1 kHz standard input level                    |         |         |  |           |           |  |
| Cross Talk                                 |                                      | Less than -65 dB at 1 kHz standard input level                  |         |         |  |           |           |  |

|  |                     | NTSC   |              |         | PAL  |              |           |
|--|---------------------|--|--------------|---------|--|--------------|-----------|
|  |                     | AU-65-P  | AU-63-P      | AU-62-P | AU-65-E/B  | AU-63-E/B    | AU-62-E/B |
| Video Input                              |                     | provided   | not provided |         | provided   | not provided |           |
|  |                     | Condition: 75% colour bar, 7.5% set up                         |              |         | Condition: 100% colour bars, 0% set up                 |              |           |
| VIDEO IN                                 |                     | BNC×2 loop through with 75 ohm ON/OFF switch 1.0 Vp-p±0.3 Vp-p |              |         |  |              |           |
| REF VIDEO IN                             |                     | BNC×2 loop through with 75 ohm ON/OFF switch 1.0 Vp-p±0.3 Vp-p |              |         |  |              |           |
| COMPONENT/YC IN                          |                     | provided   | not provided |         | provided   | not provided |           |
| Component<br>BNC×3                       | Y                   | 1.0 Vp-p 75 ohm  |              |         |  |              |           |
|  | P <sub>B</sub>      | 0.486 Vp-p 75 ohm  |              |         | 0.7 Vp-p 75 ohm  |              |           |
|  | P <sub>R</sub>      | 0.486 Vp-p 75 ohm  |              |         | 0.7 Vp-p 75 ohm  |              |           |
| YC<br>4 pin×1                            | Y                   | 1.0 Vp-p 75 ohm  |              |         |  |              |           |
|  | C                   | 0.286 Vp-p (burst level) 75 ohm                                |              |         | 0.3 Vp-p (burst level) 75 ohm                          |              |           |
| Video Output                             |                     | Condition: 75% colour bar, 7.5% set up                         |              |         | Condition: 100% colour bars, 0% set up                 |              |           |
| VIDEO OUT<br>BNC×3                       | Video Out 1         | 1.0 Vp-p±0.05 Vp-p 75 ohm, sync ON/OFF                         |              |         |  |              |           |
|  | Video Out 2         | 1.0 Vp-p±0.05 Vp-p 75 ohm, composite Out                       |              |         |  |              |           |
|  | Video Out 3         | 1.0 Vp-p±0.05 Vp-p 75 ohm, T/C superimpose ON/OFF              |              |         |  |              |           |
| COMPONENT<br>OUT<br>BNC×3                | Y                   | 1.0 Vp-p 75 ohm  |              |         |  |              |           |
|  | P <sub>B</sub>      | 0.486 Vp-p 75 ohm  |              |         | 0.7 Vp-p 75 ohm  |              |           |
|  | P <sub>R</sub>      | 0.486 Vp-p 75 ohm  |              |         | 0.7 Vp-p 75 ohm  |              |           |
| YC OUT<br>4 pin×1                        | Y                   | 1 Vp-p 75 ohm  |              |         |  |              |           |
|  | C                   | 0.286 Vp-p (burst level) 75 ohm                                |              |         | 0.3 Vp-p (burst level) 75 ohm                          |              |           |
| Audio Input                              |                     | provided   | not provided |         | provided   | not provided |           |
| AUDIO IN<br>XLR×4                        | CH1/CH2<br>(Linear) | -20/0/+4 dBm switchable<br>more than 15 kohm, balanced         |              |         | -20/0/+4 dBu switchable<br>more than 10 kohm, balanced |              |           |
|  | CH3/CH4<br>(FM)     | -20/0/+4 dBm switchable<br>more than 10 kohm, balanced         |              |         | -20/0/+4 dBu switchable<br>more than 10 kohm, balanced |              |           |
| TIME CODE IN<br>BNC×1                    |                     | 2.2 Vp-p low impedance, unbalanced                             |              |         |  |              |           |
| Audio Output                             |                     |  |              |         |  |              |           |
| AUDIO OUT<br>XLR×4                       | CH1/CH2<br>(Linear) | -20/0/+4 dBm switchable<br>low impedance, balanced             |              |         | -20/0/+4 dBu switchable<br>less than 50 ohm, balanced  |              |           |
|  | CH3/CH4<br>(FM)     |  |              |         |  |              |           |
| TIME CODE OUT<br>BNC×1                   |                     | 2.2 Vp-p low impedance, unbalanced                             |              |         |  |              |           |
| MONITOR OUT<br>XLR×1 (MIX)               |                     | 0 dBm low impedance, balanced                                  |              |         | 0 dBu low impedance, balanced                          |              |           |
| HEADPHONE OUT<br>¼" (6.3 mm) Stereo Jack |                     | -20 dB~-∞ (variable), 8 ohm                                    |              |         | -18 dB~-∞ (variable), 8 ohm                            |              |           |

# Features

## High quality pictures

The MII series VTR developed for production/broadcast purposes ensures high quality pictures, comparable to those of 1" tape, by using 1/2" metal tape.

## Built-in time base corrector (TBC)

A built-in TBC is utilized to provide stable playback, without the need for an external TBC.

## Color framing

This unit's ability to control color framing in 4 field (NTSC) and 3 field (PAL) sequence assures optimum picture quality in composite signal editing, recording and playback. Sub-carrier phase can be adjusted in relation to the input reference signal. CF, REF and INPUT SCH LED indicators are provided to indicate their functions.

## Editing functions (AU-65 only)

The unit features auto/manual editing in assemble and insert modes (with two units). Individual/combo editing is possible in VIDEO+FM, AUDIO CH1/CH2, and TIME CODE modes. By installing an optional time code board AU-F65, time code editing can be performed.

## Audio split editing (AU-65 only)

It is possible to enter the audio edit point separate from video, and audio edit can be individually performed with its edit point deflected from the video edit point.

## Variable memory editing\*

### (AU-63 and AU-65 combination)

In the variable mode, the operating conditions (tape direction and speed change) within the range extending from normal speed in reverse (-1x) to twice normal speed forward (2x) can be entered and played back.

## Setting of editing points (AU-65 only)

Editing points can be readily set by the shuttle, jog and variable functions. Tape travels at speeds ranging from still to +/-16x (setting available to 32x) in the shuttle mode, -1x to +2x in the jog mode, and -1x to +2x in the variable mode.

## Auto tracking (AT) (AU-63 only)

The auto tracking mechanism enables noise-free playback pictures to be reproduced across a -1x to +2x slow motion playback range. The edge comb-shaped filter provides slow motion playback with a high resolution.

## Tape speed override (TSO)

This function enables the tape speed to be manually adjusted in 1% increments up to 15% faster or slower than the normal playback speed.

Tape speed override is presettable from the internal switch.

## Amorphous heads

This unit is equipped with amorphous video heads designed to match the magnetic characteristics of the metal tape used by MII system VTRs. Together, they greatly improve high frequency response and decrease the eddy current loss.

## 4-channel audio\*

The unit's audio is a 4 channel design with two channels of linear audio and two channels of high quality FM sound. Audio Mixing Output connector serves mixed sound of CH1 or CH2 audio and CH3 or CH4 audio. The Dolby® C Noise Reduction System is provided for the linear channels.

\*The same signal is recorded in both the linear audio and FM audio channels. (AU-65 only)

## Large character display

Information is displayed concerning the status of the VTR such as, tape time, editing data, speed data and error messages.


## Shuttle search at up to 32 times normal speed plus jog search

The shuttle mode allows high-speed access at a maximum of 16 times (setting available to 32 times) normal speed in both forward and reverse direction. The jog mode allows speed change from -1x to 2x times normal speed. The operation conditions are displayed in large size characters on the display for enhanced operation convenience.

## Machine-to-machine synchronization and sync roll

This unit provides easy synchronization between two VTRs. When used with the optional Editing Controller (AU-A65), this bridge-through connection allows sync roll with simple connections.

\*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

\*\*"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

## Automatic standard/non-standard selection

This unit automatically detects whether the input signal is RS-170A standard signal or non-standard. (AU-65 only)

## Tape remaining and lap time indication

Tape remaining and edit duration time are indicated by digit, making it easy to see how much tape remains and to check the duration time of the IN/OUT point.

## Encoder remote

The built-in encoder is controllable using the encoder remote connector (15P), provided on the rear panel.

## Serial (9P) remote

This unit is equipped with serial (9P) remote interface. When editing with two VTR units, the player can be remotely controlled from the recorder using the serial 9P cable connection.

## Parallel (50P) remote

When the optional parallel (50P) remote connector is used, remote control can be performed from a distance by parallel remote mode.

## Superimpose

The data in a tape position and the VTR operation mode can be imposed on the television screen.

## Component input/output connectors

### (Input connector: AU-65 only)

Component input/output connectors are provided for interface with other equipment at the component signal level.

## YC input/output connectors

### (Input connector: AU-65 only)

YC input/output connectors have been provided to enable interfacing with other components using the YC signals.

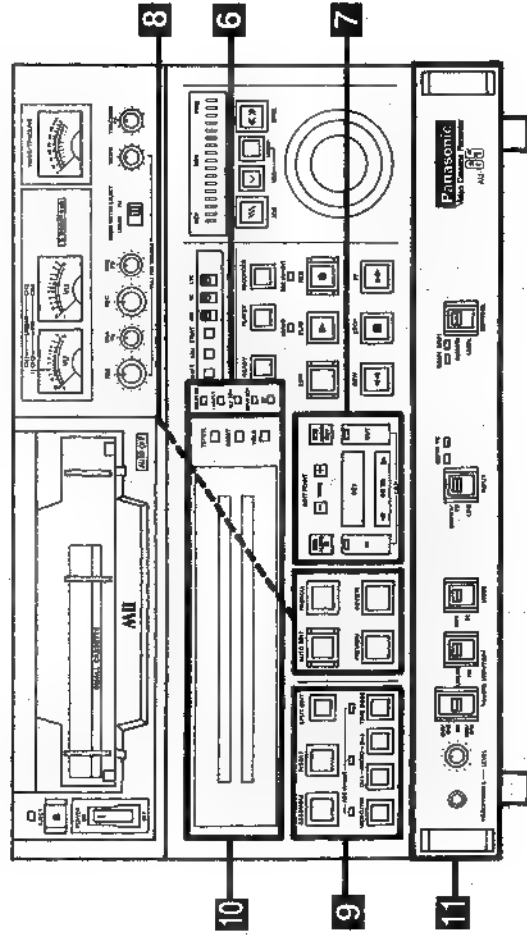
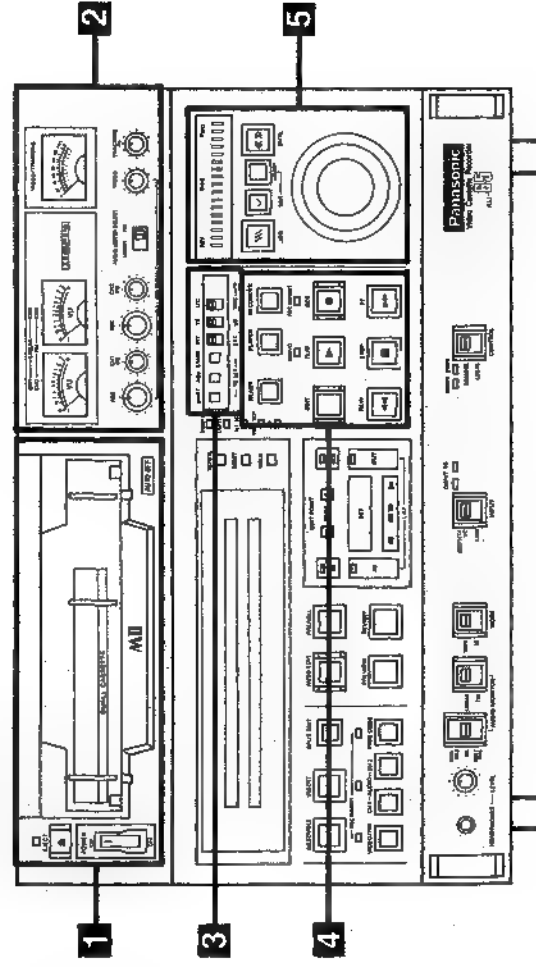
## Recorder inhibit (AU-65 only)

Individual record inhibits are provided for Video, Linear Audio and Time Code. With the switches ON, both recording and editing are inhibited.

## Rack mount

The VTR can be mounted in a standard EIA 19" rack.

# Front Panel



The above illustrations show the AU-65 as seen from the front.

## 1 Power, cassette area

- POWER Switch:**  
This is the power switch.  
Press it to eject the tape.
- EJECT Button:**  
This lights when a tape is ejected.
- Cassette Holder:**  
This lights when there is something wrong with the unit. While it is lighted, only the unit's EJECT button among the controls is functional. (See page E-93)
- AUTO OFF Lamp:**

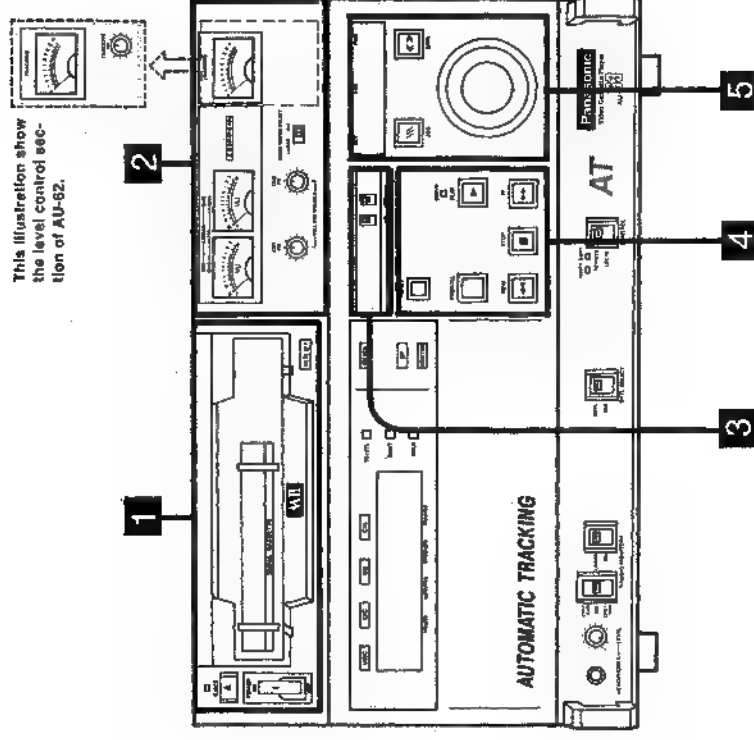
## 2 Level control area

- LINEAR AUDIO (CH1/CH2)/FM AUDIO (CH3/CH4) Meters:**  
These indicate the signal level for linear sound (CH1/2) and FM sound (CH3/CH4).
- VIDEO/TRACKING Meter:**  
This indicates the video level or tracking level.
- VIDEO Level Control:**  
This adjusts the composite video signal level.
- TRACKING Control:**  
This adjusts the tracking.
- Audio Level Controls:**  
Pull these out to adjust the audio level. Push them back into place when recording or playing back at the optimum (preset) level.
- AUDIO METER SELECT Switch:**  
This switches between the linear audio meter and FM audio meter.
- LINEAR:** Set to this position for linear sound.  
**FM:** Set to this position for FM sound.

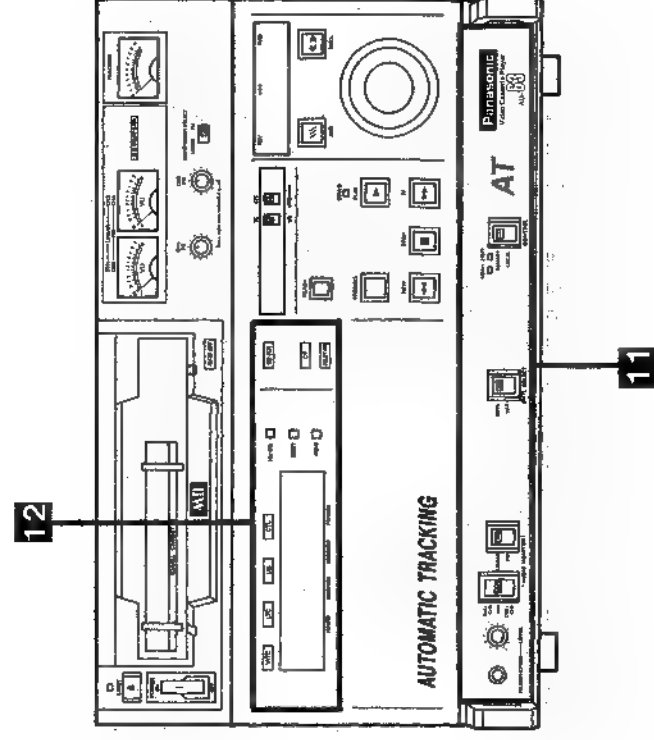
## 3 Time code setting area

- SHIFT Button:**  
This shifts the flashing part of the time code display.
- ADJ Button:**  
This changes the value of the flashing part.
- START Button:**  
Press this after completing the time code settings.
- INT/EXT Switch:**  
During time code recording, this selects whether the recording is to use the AU-F65 (option) or external time code.
- TC/UB Switch:**  
This switches between the time code and user bits display. (It works only when the TC/CTL switch has been set to the TC position.)
- LTC/VITC (AUTO) Switch:**  
**LTC:** The LTC or LUBR value is displayed.  
**VITC (AUTO):** The VITC or VUBR value is displayed.
- VITC:**  
LTCR is displayed when VITC has not been recorded on tape.  
• If the time code cannot be read at either position, interpolation is provided by the CTL signal.

• The controls in the time code setting area function when the optional AU-F65 time code generator/reader board has been installed.

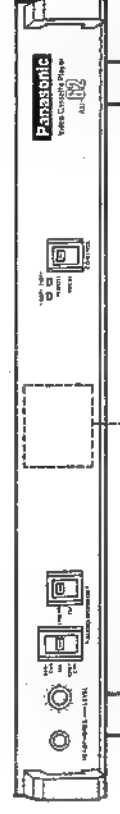


This illustration shows the level control section of AU-62.



The above illustrations show the AU-63 as seen from the front.

This illustration shows the lower panel of the AU-62.



The AU-62 is not provided with the SHTL SELECT switch.

## 4 Basic control area

- READY Button:**  
This is the READY mode ON/OFF button.
- PLAYER Button:**  
This is pressed when operating the player, which is remote controlled by this unit, while using 2 VTRs for editing.
- RECORDER Button:**  
This is pressed when operating the recorder (this unit) while using 2 VTRs for editing. (AU-65 only)
- EDIT Button:**  
Editing commences when this is pressed together with the PLAY button. (AU-65 only)
- PLAY Button:**  
Playback commences when this is pressed.
- REC Button:**  
Recording commences when this is pressed together with the PLAY button. (AU-65 only)
- REW Button:**  
This rewinds the tape at 32 times the normal tape speed.
- FF Button:**  
This fast forwards the tape at 32 times the normal tape speed.
- SERVO LOCK Lamp:**  
This lights during servo lock.
- REC INHIBIT Lamp:**  
This light in the recording inhibit mode. (AU-65 only)

## 5 Search control area

- SEARCH Indicator:**  
This indicates the operating status of the search dial.
- JOG Button:**  
This is pressed to establish the JOG mode.
- VAR Button:**  
This is pressed to establish the variable mode.
- VAR MEMORY Button:**  
This is pressed when conducting a variable memory operation. (AU-65 only)
- SHTL Button:**  
This is pressed to establish the shuttle mode. (AU-65 only)
- SEARCH Dial:**  
This changes the search speed.



## 6 LED display area on AU-65

|                        |   |
|------------------------|---|
| <b>LIMITER Lamp:</b>   | This lights when the front sub-panel AUDIO LIMITER switch is ON.                                    |
| <b>DOLBY NR Lamp:</b>  | This lights when the DOLBY NR switch is ON.   |
| <b>REF SCH Lamp:</b>   | This lights when SCH of the reference video signal is within $\pm 60^\circ$ of the standard signal. |
| <b>INPUT SCH Lamp:</b> | This lights when SCH of the LINE IN video signal is within $\pm 70^\circ$ of the standard signal.   |
| <b>CF Lamp:</b>        | This lights in the colour framing mode.   |

## 7 Editing point entry area on AU-65

|                          |   |
|--------------------------|---|
| <b>AUDIO IN Button:</b>  | Use this for entering, checking and correcting AUDIO IN point.  |
| <b>IN Button:</b>        | Use this for entering, checking and correcting edit IN point.   |
| <b>TRIM +/- Buttons:</b> | Use these when correcting an edit point in 1-frame unit.        |
| <b>SET Button:</b>       | Use this for entering an edit point.                            |
| <b>GO TO Button:</b>     | Use this for accessing an edit point.                           |
| <b>AUDIO OUT Button:</b> | Use this for entering, checking and correcting AUDIO OUT point. |
| <b>OUT Button:</b>       | Use this for entering, checking and correcting edit OUT point.  |

## 8 Editing control area on AU-65

|                          |  |
|--------------------------|--|
| <b>AUTO EDIT Button:</b> | Press this to execute automatic editing.   |
| <b>PREROLL Button:</b>   | Press this to execute a preroll operation. |
| <b>PREVIEW Button:</b>   | Press this to execute a preview operation. |
| <b>REVIEW Button:</b>    | Press this to execute a review operation.  |

## 9 Editing mode selection area on AU-65

|  |   |
|--|---|
| <b>ASSEMBLE Button:</b>                  | Press this to establish the assemble editing mode.    |
| <b>INSERT Button:</b>                    | Press this to establish the insert editing mode.      |
| <b>REC INHIBIT Lamp:</b>                 | This lights in the recording inhibit mode.            |
| <b>Editing Channel Selector Buttons:</b> | These select the editing channel.                     |
| <b>VIDEO/FM:</b>                         | Video/FM (CH3/4) is selected.                         |
| <b>AUDIO CH1:</b>                        | Linear CH1 audio is selected.                         |
| <b>AUDIO CH2:</b>                        | Linear CH2 audio is selected.                         |
| <b>TIME CODE:</b>                        | Time code is selected.                                |
| <b>SPLIT EDIT Button:</b>                | Press this to establish the audio split editing mode. |

## 10 Display area on AU-65

|                       |   |
|-----------------------|---|
| <b>Display:</b>       | The tape timer, time code, user bits and error messages appear on this display.                                       |
| <b>TC/CTL Switch:</b> | This selects whether the time code (TC) or control signal (CTL) is to be used in order to read out the tape position. |
| <b>RESET Button:</b>  | This resets the CTL value to zero.  |
| <b>HOLD Button:</b>   | Press this to hold whatever is on the display.  |

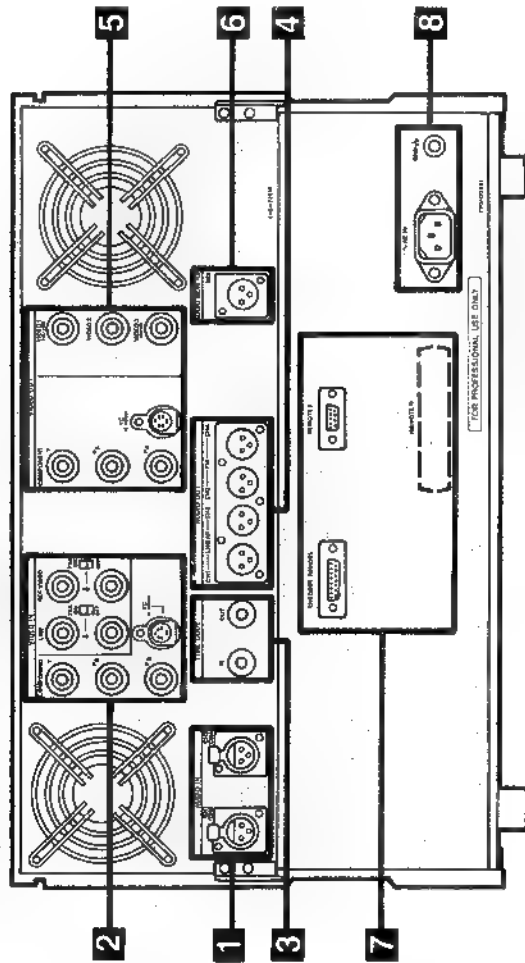
## 11 Bottom panel area

|                                 |  |
|---------------------------------|--|
| <b>HEADPHONE Jack (6.3 mm):</b> | Connect stereo headphones here.  |
| <b>HEADPHONE LEVEL Control:</b> | This controls the headphones volume.   |
| <b>AUDIO MONITOR Controls:</b>  | These select the sound and channel to be monitored.  |
| <b>CH1/3:</b>                   | For CH1 (or CH3) sound monitoring in both the left (L) and right (R) channels.                             |
| <b>MIX:</b>                     | For monitoring CH1 (or CH3) sound in the left (L) channel and CH2 (or CH4) sound in the right (R) channel. |
| <b>CH2/4:</b>                   | For CH2 (or CH4) sound monitoring in both the left (L) and right (R) channels.                             |
| <b>LINEAR:</b>                  | For monitoring linear sound (CH1/2).   |
| <b>FM:</b>                      | For monitoring FM sound (CH3/4).   |
| <b>MODE Switch:</b>             | This selects the monitoring picture in the stop or recording mode.   |
| <b>TAPE:</b>                    | For monitoring the playback picture.   |
| <b>EE:</b>                      | For monitoring the EE picture.   |
| <b>INPUT Switch:</b>            | This selects the input signal.   |
| <b>LINE:</b>                    | For recording the composite signal from the LINE IN connector.   |
| <b>COMPNT/YC:</b>               | For recording the signal from the component input connector or YC input connector.                         |
| <b>CONTROL Switch:</b>          | For remote control.  |
| <b>REMOTE:</b>                  | Remote control is completely disabled.   |
| <b>LOCAL:</b>                   | Selects SHTL button function (AU-63 only).   |
| <b>SHTL:</b>                    | SHTL mode is established when SHTL button is pressed.  |
| <b>VAR:</b>                     | VAR mode is established when SHTL button is pressed.   |

## 12 Display section on AU-63/62

|                         |   |
|-------------------------|---|
| <b>Display:</b>         | Indicates tape timer, time code, user's bit and error messages, etc.  |
| <b>Time code lamps:</b> |   |
| <b>VTC:</b>             | Lights in VITC mode.  |
| <b>LTC:</b>             | Lights in LTC mode.   |
| <b>UB:</b>              | Lights in UB mode.  |
| <b>CTL:</b>             | Lights in CTL mode.   |
| <b>TC/CTL switch:</b>   | Selects the time code (TC) or control signal (CTL) for reading out the tape position indicated on the display. It also selects the reference signal during editing. |
| <b>RESET button:</b>    | When pressed in the CTL mode, the tape timer indicated on the display is reset to zero.   |
| <b>HOLD button:</b>     | Press to hold the value now indicated on the display. Press it again to select the time code signal and then return to the previous mode.                           |
| <b>REF SCH lamp:</b>    | Lights when the reference video signal SCH is $\pm 60^\circ$ .  |
| <b>CF lamp:</b>         | Lights in the colour framing mode.  |
| <b>DOLBY NR lamp:</b>   | Lights when the Dolby NR system is working.   |

# Rear Panel



The above illustration shows the AU-65 as seen from the rear.

## 1 AUDIO IN signal area on AU-65

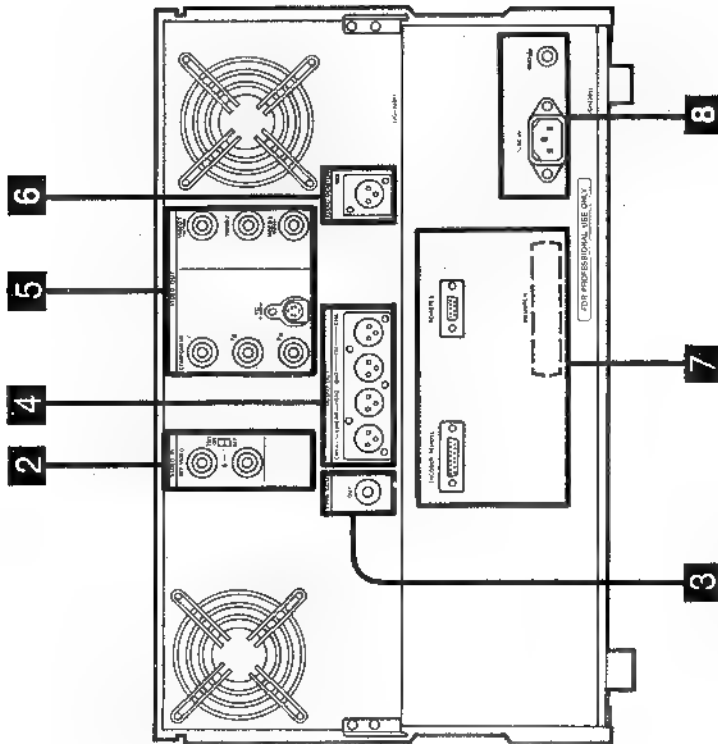
- AUDIO CH1/3 Input Connector:** This is the CH1/3 audio input connector.  
**AUDIO CH2/4 Input Connector:** This is the CH2/4 audio input connector.

## 2 VIDEO IN signal area

- COMPONENT Connectors:** The component signals (Y, R, and B) are supplied separately to these input connectors.  
**LINE IN Input Connectors:** The composite video signal is supplied to these input connectors (which come with loop-through 75-ohm terminating switch).  
**YC Input Connector:** (AU-65 only) This is the input connector for the YC (S-VIDEO) signal.  
**REF VIDEO IN Connectors:** The reference signal is supplied to these input connectors (which come with loop-through 75-ohm terminating switch).

## 3 Time code signal area

- TIME CODE Input Connector:** (AU-65 only) The time code signal is supplied to this input connector.  
**TIME CODE Output Connector:** The time code signal is output from this output connector.



The above illustration shows the AU-62/63 as seen from the rear.

## 4 AUDIO OUT signal area

- LINEAR AUDIO CH1/CH2 Output Connectors:** These are the output connectors for the CH1 and CH2 audio signals.  
**STEREO AUDIO CH3/CH4 Output Connectors:** These are the output connectors for the CH3 and CH4 audio signals.

## 5 VIDEO OUT signal area

- YC (S-VIDEO) Output Connector:** The YC (S-VIDEO) signal is output from this connector.  
**COMPONENT Output Connectors:** The component signals (Y, R, and B) are output separately from these connectors.  
**VIDEO 1 Output Connector:** The video signal with sync (VBS) or without sync—depending on the position selected by the circuit board (W2 encoder board) switch—is output from this connector.  
**VIDEO 2 Output Connector:** The composite signal is output from this connector.  
**VIDEO 3 Output Connector:** Depending on the setting of the SUPER switch on the B1.SYSTEM CONTROL board, the VTR operating mode, line code or control signal can be superimposed.

## 6 AUDIO MONITOR signal area

•L, R or MIX sound is output, depending on the setting of the AUDIO MONITOR switch.

**AUDIO MONITOR MIX Output Connector:** The L, R and MIX sound is output from this connector.

## 7 Remote signal area

**REMOTE 2 (9P) Connector:**

RS-422A serial remote connector

Terminal window for using the optional 50-pin parallel remote connector.

Set the front panel CONTROL switch to "REMOTE" and the front sub-panel REMOTE switch to "1".

This ■ is used for the remote control of the internal encoder from an external device.

**ENCODER REMOTE Connector:**

## 8 Power supply area

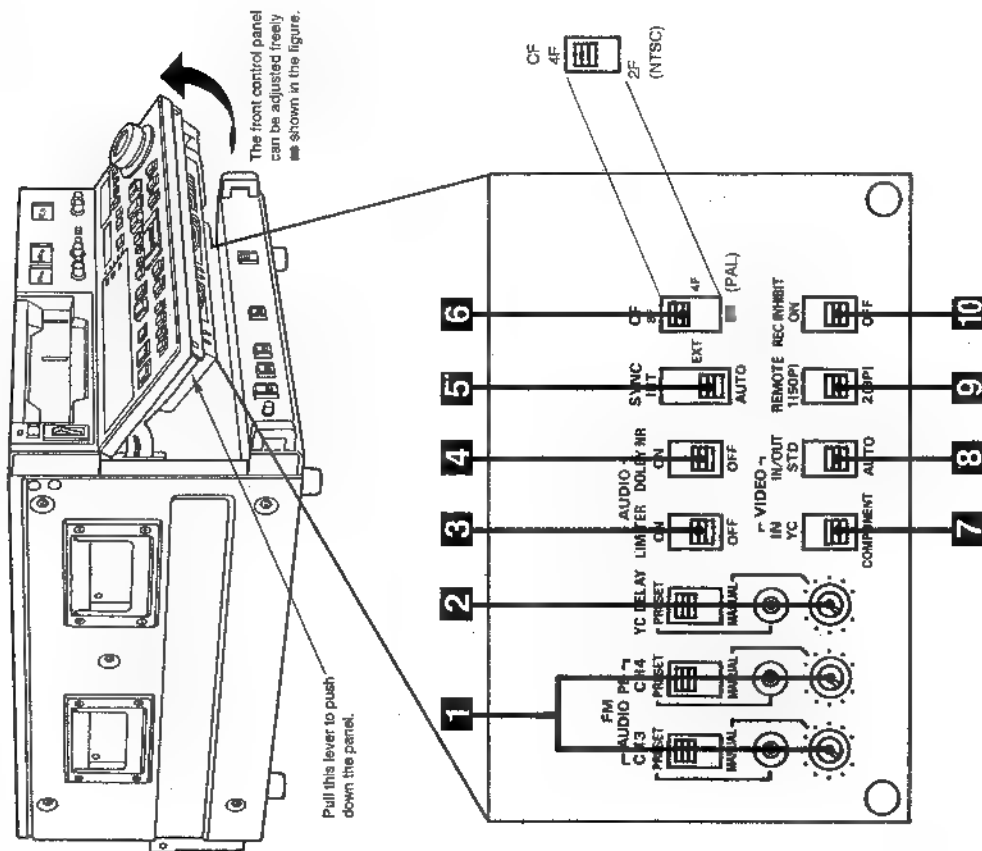
**AC IN Socket:**

Use the accessory power cord to connect this socket with the power outlet.

**GND Terminal:**

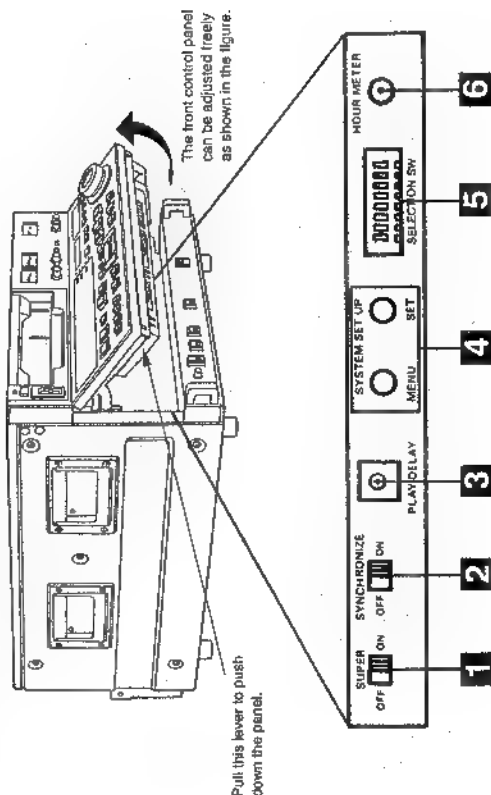
Be sure to connect this to ground when this unit ■ connected with another component.

# Front Sub-Panel



- 1 **FM AUDIO (CH3/CH4) FE Switches/Controls:**  
**PRESET:** The playback level of the sound is set to the preset status.  
**MANUAL:** The playback level of the sound can be adjusted as desired.
- 2 **YC DELAY Switches/Controls:**  
**PRESET:** The YC timing is set to the preset status.  
**MANUAL:** The YC timing can be adjusted as desired.
- 3 **AUDIO LIMITER Switch:**  
**ON:** This works for linear audio signals only.  
The volume limiter circuit is activated when the input signal level is excessively high.  
**OFF:** The audio signals are recorded at their original level.
- 4 **DOLBY NR Switch:**  
**ON/OFF** switch for Dolby C Noise Reduction. (This works only for linear audio signals.)
- 5 **SYNC Switch:**  
**INT:** This selects the servo reference signal.  
Synchronizes the servo with the internal reference signal during normal playback.  
**EXT:** Synchronizes the servo with the external reference signal.  
**AUTO:** Synchronizes the servo with the video input signal during recording and editing, and with the external reference signal during playback.
- 6 **CF Switch:**  
**8F:** This selects the colour framing mode during editing and playback.  
For recording, playback and editing in 8-field units. (PAL only)  
**4F:** For recording, playback and editing in 4-field units.  
VISC control is performed.  
**2F:** For recording, playback and editing in 2-field units.
- 7 **VIDEO IN Switch:**  
**YC:** This selects COMPONENT or YC as the video input signal.  
For YC signal input.  
**COMPONENT:** For component signal input.
- 8 **VIDEO IN/OUT Switch:**  
**STD:** For supplying a regular composite signal through the time base corrector (TBC).  
**AUTO:** For automatically identifying whether the signal has passed through the TBC or not.
- 9 **REMOTE Switch:**  
**1 (50P):** When using an optional REMOTE 1 (50P) connector  
**2 (9P):** When using the REMOTE 2 (9P) connector
- 10 **REC INHIBIT Switch:**  
**ON:** The REC INHIBIT lamp lights to indicate that recording is inhibited.  
**OFF:** Signals can be recorded at this position.

# SYSTEM CONTROL Board



1 SUPER Switch:

2 SYNCHRONIZE Switch:  
(AU-65 only)

3 PLAY DELAY Switch:

4 SYSTEM SET UP Buttons:

5 SELECTION SW:

6 HOUR METER Button:

This is the ON/OFF switch for superimposing time code, status or other character signals onto the signal which is output from the VIDEO 3 connector.

When this is set to ON, operation will be synchronized when controlling the player in an editing system where this unit is serving as the recorder.

This sets the duration (in frame units) of the transition from the stop mode to the play mode. Any value from 0 to 15 can be set.

These are used when the unit's set-up is to be changed.

Not used. (All switches are set to OFF.)

When this is pressed, the accumulated values for the "Total power ON time" and "Drum rotation time" appear on the display and on-screen.

Display indication

P00000H D00000H

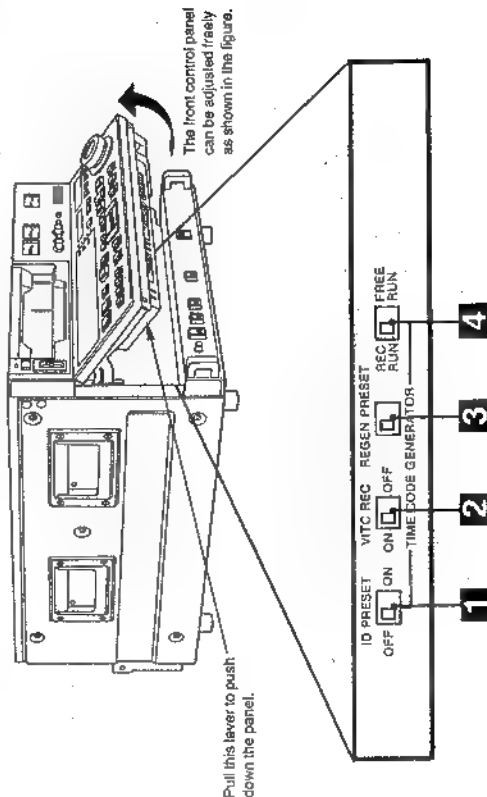
On-screen display

POWER ON 00000HOURS  
DRUM ON 00000HOURS

# OPTION USED!

## TCG/TCR Board

The time code/user bits operations can be performed when the optional AU-F65 time code generator/reader is installed in the unit.



1 ID PRESET Switch:

ON: For setting the ID code.

OFF: For setting the normal user bits value.

2 VITC REC Switch:

ON: For recording the new VITC value onto tape.

OFF: The new VITC value is not recorded.

3 REGEN/PRESET Switch:

REGEN: For synchronizing the internal user bits with the external user bits.

PRESET: For using the internal user bits.

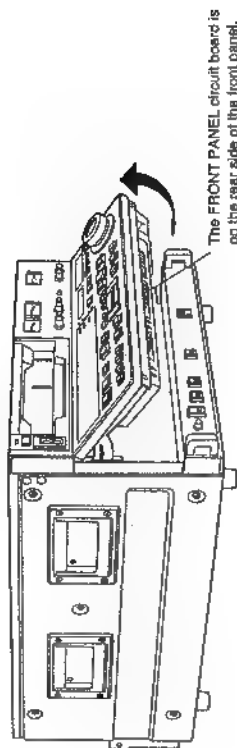
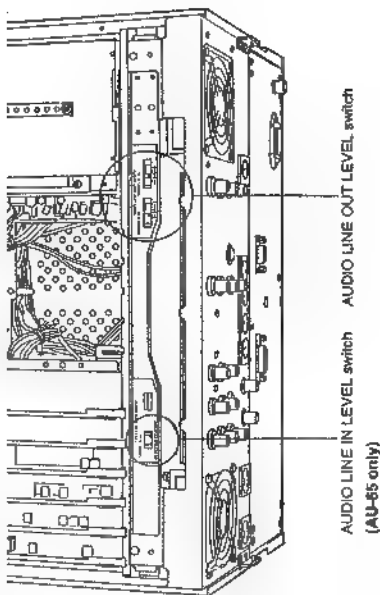
4 REC RUN/FREE RUN Switch:

REC RUN: The time code runs only during recording.

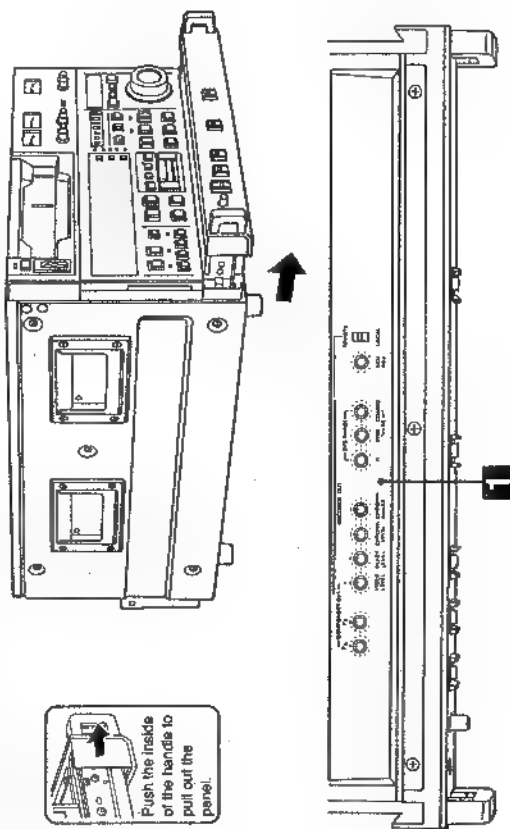
FREE RUN: The time code runs in real time, regardless of the operating mode of the VTR.

# Preset Panel

# Circuit Boards



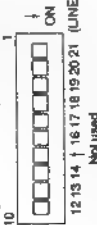
CAUTION: TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER CHANGE OF SWITCH SETTING INSIDE THE UNIT TO AUTHORIZED SERVICE PERSONNEL




## 1 ENCODER OUT control area

- Pa/Pr Controls:**
- VIDEO LEVEL Control:** These adjust the level of the COMPONENT output signals. This adjusts the level of all the video signals except the sync and burst.
  - BLACK LEVEL Control:** This adjusts the black level.
  - CHROMA LEVEL Control:** This adjusts the chroma level.
  - CHROMA PHASE Control:** This adjusts the chroma phase.
  - SYS H PHASE Control:** This adjusts the system H phase.
  - SYS SC Controls:** These adjust the system SC phase. For the continuous adjustment in a just over 90° range; 360° coverage.
- FINE:** For the continuous adjustment in a just over 90° range; 360° coverage.
- COARSE:** For adjustment in 4 steps of 90° each. This adjusts the SC phase in relation to the sync signal supplied from the VIDEO output connector.
- SCH ADJ Control:** For adjusting the encoder from an external unit.
- REMOTE/LOCAL Switch:** For adjusting the encoder using this unit. LOCAL is automatically selected even if the REMOTE position has been set if the rear panel ENCODER REMOTE connector has not been connected.

# AU-65 (NTSC) only

| Circuit board | Abbreviation   | Full name   | Description  | Shipment mode |
|---------------|----------------|---|--|---------------|
| W1 Board      | SW4            | V-blanking selector switch                                | Blanks the video signal during the V-blanking interval (blanking when in ON position).<br><br>When the unit is used as a player during editing, if the VITC insert line position ■ the tape differs from the settings of the editor, set these switches ON to blank the VITC insert line. | ALL OFF       |
|               | SW7            | Factory adjustment switch                                 | Factory adjustment switch  | ON            |
|               | SW201          | Frame detection switch                                    | Detects the input video frame.<br>ON: Frame detection always occurs.<br>OFF: Frame detection is inhibited when the input signal is non-standard signal.  | ON            |
|               | SW203          | VIDEO phase switch  | Used for video phase adjustment.   | 6/7/8         |
| W2 Board      | SW201          | SYNC ON/OFF switch  | To select whether a SYNC signal ■ added to the VIDEO OUT 1 output signal.<br>ON: SYNC signal is added.<br>OFF: SYNC signal ■ not added.  | ON            |
|               | SW1            | VIDEO/SYNC meter selector switch                          | Selecting VIDEO meter.   | VIDEO         |
| W3 Board      | SW201          | C CLAMP PULSE selector switch                             | Used only during pre-check (for factory adjustment).   | NOT TEST      |
|               | SW202          | C REC BPF adjustment switch                               | Used only for adjustments (factory adjustments).   | NOT TEST      |
|               | SW301          | Y Pa EQ checking switch                                   | For checking Y Pa EQ (for factory adjustments).  | ON            |
|               | SW302          | Y, G + D adjustment switch                                | Used only for adjustments (factory adjustments).   | ON            |
|               | SW304          | Y super limiter ON/OFF switch                             | ON/OFF of Y super limiter (for factory adjustments).   | ON            |
|               | SW701          | C Pa EQ checking switch                                   | For checking C Pa EQ (for factory adjustments).  | ON            |
|               | SW702          | C, G + D adjustment switch                                | Used only for adjustments (factory adjustments).   | ON            |
|               | SW704          | C super limiter ON/OFF switch                             | ON/OFF of C super limiter (for factory adjustments).   | ON            |
|               | VR315<br>VR316 | C CH1/CH2 Playback frequency equalizing adjustment volume | Used only for adjustments (factory adjustments)  | —             |
|               | VR712<br>VR713 | Y CH1/CH2 Playback frequency equalizing adjustment volume | Used only for adjustments (factory adjustments)  | —             |
|               |                |   |  |               |
|               |                |   |  |               |
|               |                |   |  |               |

# AU-65 (NTSC) only

| Circuit board | Abbreviation | Full name   | Description  | Shipment mode |
|---------------|--------------|---|--|---------------|
| W4 Board      | SW201        | —   | NORM: Carrier leak cancel chroma VDL operation ON.<br>ADJ: Carrier leak cancel chroma VDL operation OFF.<br>(For factory adjustments)  | NORM          |
|               | SW701        | —   | NORM: Warbling operation ON.<br>ADJ: Warbling operation OFF.<br>(For factory adjustments)  | NORM          |
| W5 Board      | SW3          | AUTO H PHASE switch                                 | Used during editing to prevent skew of the video signal at the edit point.<br>ON: AUTO H PHASE mode is activated.<br>OFF: AUTO H PHASE mode is not activated.  | ON            |
|               | SW101        | AUDIO LINE IN LEVEL SW                              | Used to set the audio input levels of CH1 to 4.<br>-20dB/+4 dBm (See Note)   | +4 dBm        |
|               | SW102        | AUDIO LINE OUT LEVEL SW                             | Used to set the audio output level of CH1/2.<br>-20dB/+4 dBm (See Note)  | +4 dBm        |
| Front Panel   | SW302        | AUDIO LINE OUT LEVEL SW                             | Used to set the audio output level of CH3/4.<br>-20dB/+4 dBm (See Note)  | +4 dBm        |
|               | SW1          | Preroll Time Select Switch                          | The preroll time can be selected by setting SW1 in the following manner.<br>  | 5 sec.        |
|               | SW2-2        | "NEGATIVE" Indication Select Switch                 | Whether to indicate "NEGATIVE" on the front display when the OUT point is entered that precedes the already entered ■ point.<br>ON: Indicate "NEGATIVE" ■ the display.<br>OFF: Non indicate.                             | OFF           |
|               | SW4-1        | Remaining Time Indication Select Switch             | To select whether to indicate the tape remaining time on the front display.<br>ON: Tape remaining time is indicated when Block 3 in the display ■ blank.<br>OFF: Tape remaining time is always indicated in Block 3.     | OFF           |
|               | SW4-2        | TSO Select Switch (use for connecting to other VTR) | Selection of TSO depending on the connected VTR.<br>ON: TSO functions exclusively for AU-650 and AU-620.<br>OFF: TSO functions exclusively for AU-60, AU-65, AU-640, AU-650B and AU-660.<br>(±15% max. in each ±1% step) | OFF           |

# AU-63/62 (NTSC) only


| PCB                    | SW no. | Name                          | Function   | Initial setting |
|------------------------|--------|-------------------------------|--|-----------------|
| W1 PCB: TBC & SYNC GEN | SW203  | VIDEO phase switch            | This adjusts the video phase.  | 67/8            |
|                        | SW204  | V Blanking select switch      |  | ALL OFF         |
| W2 PCB: ENCODER        | SW201  | SYNC ON/OFF switch            | The SYNC signal is added to the VIDEO OUT 1 output signal.<br>ON: SYNC signal is added.<br>OFF: SYNC signal is not added.  | ON              |
| W3 PCB: OEMOD          | SW1    | VIDEO/SYNC meter switch       | Selects the video meter mode.  | VIDEO           |
| W6 PCB: AUDIO I/O      | SW102  | AUDIO LINE OUT LEVEL switch   | This sets the CH1/2 AUDIO output level (+40/-20 dBm).  | +4 dBm          |
|                        | SW302  | AUDIO LINE OUT LEVEL switch   | This sets the CH3/4 AUDIO output level (+40/-20 dBm).  | +4 dBm          |
| FRONT PANEL PCB        | SW1    | Perroll time switch           | SW1 selects the perroll time.  | 5 sec.          |
|                        | SW2-1  | Remaining tape display switch | Selects whether the remaining time is to be indicated by the display.<br>ON: Display<br>OFF: No display  | OFF             |
|                        | SW2-2  | DF/NDF switch                 | Selects CTL display drop frame (DF) or non-drop frame (NDF) mode.<br>ON: NDF<br>OFF: DF  | OFF             |
|                        | SW2-3  | TSO switch                    | Select the tape speed override (TSO) according to the machine connected.<br>ON: TSO for AU-650, AU-620 only<br>OFF: TSO for AU-60, AU-85, AU-640, AU-660 only<br>TSO can be varied in 1% increments up to $\pm 15\%$ . | OFF             |



# AU-65 (PAL) only

| PCB                   | SW No.    | Switch                      | Function   | Initial setting |
|-----------------------|-----------|-----------------------------|--|-----------------|
| W1 PCB TBC & SYNC GEN | SW201     | Frame detection switch      | Detects the video input frame when there is no TBC.<br>ON: Detection takes place.<br>OFF: Detection is inhibited.  | ON              |
|                       | SW203     | VIDEO phase switch          | Adjusts the video phase.   | 9               |
|                       | SW204     | V Blanking select switch    | <div> <div> <div>ON</div> <div>OFF</div> </div> <div> <div>8 Line</div> <div>9 Line</div> <div>10 Line</div> <div>11 Line</div> <div>Not used</div> <div>13 Line</div> <div>14 Line</div> <div>15 Line</div> <div>16 Line</div> <div>17 Line</div> </div> </div> <p>When the unit is used as a player during editing, if the VITC insert line position on the tape differs from the settings of the editor, set these switches ON to blank the VITC insert line.</p> | ALL OFF         |
|                       | SW205     |                             | <div> <div>18 Line</div> <div>19 Line</div> <div>20 Line</div> <div>21 Line</div> </div>   |                 |
|                       | SW8       |                             | <div> <div>7 Line</div> </div>   |                 |
| W2 PCB ENCODER        | SW201     | SYNC ON/OFF switch          | Adds the SYNC signal to the VIDEO OUT 1 output signal.<br>ON: SYNC signal is added.<br>OFF: SYNC signal is not added.  | ON              |
| W3 PCB MOD & DEMOD    | SW1       | VIDEO/SYNC meter switch     | Selects VIDEO meter.   | VIDEO           |
|                       | SW305     | AUTO EQ VAR                 | Makes the automatic equalizer level adjustable when SW306 is ON.<br>ON: Adjustment possible.<br>OFF: Preset position (fixed level)   | OFF             |
|                       | SW306     | AUTO EQ SW                  | Makes the frequency response constant despite variations in burst level (automatic equalizer).<br>ON: The automatic equalizer is activated.<br>OFF: The automatic equalizer is not activated.  | OFF             |
| AUDIO I/O PCB         | SW101*    | AUDIO LINE IN LEVEL switch  | Sets the CH1/2/3/4 audio input level.<br>-20dB/+4 dBu  | 0 dBu           |
|                       | SW102/302 | AUDIO LINE OUT LEVEL switch | Sets the CH1/2 (SW102) or CH3/4 (SW302) audio output level.<br>-20dB/+4 dBu  | 0 dBu           |

# AU-65 (PAL) only

| PCB         | SW No.    | Switch                        | Function  | Initial setting |
|-------------|-----------|-------------------------------|---|-----------------|
| FRONT PANEL | SW1       | Preroll time switch           | This selects the preroll time to any value from 0 to 15 seconds.  | 5 sec.          |
|             | SW2-1     | Not used                      |   | OFF             |
|             | SW2-2     | NEGATIVE display switch       | This selects whether "NEGATIVE" is to be indicated on the display when the IN point is equal to, or less than, the OUT point during edit point entry.<br>ON: "NEGATIVE" appears in block 2.<br>OFF: "NEGATIVE" does not appear.                               | OFF             |
|             | SW4-1     | Remaining tape display switch | This selects whether the remaining tape is to be indicated on the display.<br>ON: Displayed when block 3 is empty.<br>OFF: Displayed all the time.  | OFF             |
|             | SW4-2     | TSO switch                    | Selects TSO in accordance with the connected machine.<br>ON: TSO for AU-650, AU-620 only.<br>OFF: TSO for AU-750, AU-650B, AU-65, AU-630, AU-640 only<br>(This can be changed in 1% steps up to $\pm 15\%$ .)   | OFF             |
|             | SW4-3~4-6 | Not used                      |   | OFF             |
|             | SW4-7     | Forced EE selector switch     | This selects the forced EE mode during tape eject.<br>ON:  mode is set all the time regardless of the MODE switch position.<br>OFF: Mode corresponds to MODE switch setting. | OFF             |

# AU-63/62 (PAL) only

| PCB                   | SW no. | Name                     | Function  | Initial setting |
|-----------------------|--------|--------------------------|---|-----------------|
| W1 PCB TBC & SYNC GEN | SW203  | VIDEO phase switch       | This adjusts the video phase.   | 9               |
|                       | SW204  | V Blanking select switch | <div> <div>10</div> <div> <div>8 Line</div> <div>9 Line</div> <div>10 Line</div> <div>11 Line</div> <div>13 Line</div> <div>14 Line</div> <div>15 Line</div> <div>16 Line</div> <div>17 Line</div> </div> <div>1</div> <div> <div>18 Line</div> <div>19 Line</div> <div>20 Line</div> <div>21 Line</div> </div> <div>4</div> <div> <div>7 Line</div> </div> <div>1</div> </div> | ALL OFF         |
|                       | SW205  |                          |   |                 |
|                       | SW8    |                          |   |                 |
| W2 PCB ENCODER        | SW201  | SYNC ON/OFF switch       | The SYNC signal is added to the VIDEO OUT 1 output signal.<br>ON: SYNC signal is added.<br>OFF: SYNC signal is not added.   | ON              |
| W3 PCB: DEMOD         | SW1    | VIDEO/SYNC meter switch  | Selects VIDEO meter mode.   | VIDEO           |
|                       | SW305  | AUTO EQ VAR              | Makes the automatic equalizer level adjustable when SW306 is ON.<br>ON: Adjustment possible.<br>OFF: Preset position (fixed level)  | OFF             |
|                       | SW306  | AUTO EQ SW               | Makes the frequency response constant despite variations in burst level (automatic equalizer).<br>ON: The automatic equalizer is activated.<br>OFF: The automatic equalizer is not activated.   | OFF             |

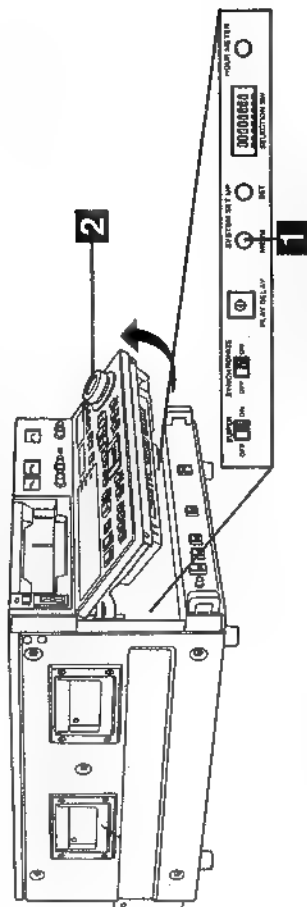
# AU-63/62 (PAL) only

| PCB               | SW no. | Switch                        | Function  | Initial setting |
|-------------------|--------|-------------------------------|---|-----------------|
| W6 PCB: AUDIO I/O | SW102  | AUDIO LINE OUT LEVEL switch   | This sets the CH1/2 AUDIO output level (+40/-20 dBu).   | 0 dBu           |
|                   | SW302  | AUDIO LINE OUT LEVEL switch   | This sets the CH3/4 AUDIO output level (+40/-20 dBu).   | 0 dBu           |
| FRONT PANEL PCB   | SW1    | Preset time switch            | SW selects the preset time.   | 5 sec.          |
|                   | SW2-1  | Remaining tape display switch | Selects whether the remaining time is to be indicated on the display.<br>ON: Display<br>OFF: No display   | OFF             |
|                   | SW2-2  |                               |   | OFF             |
|                   | SW2-3  | TSO switch                    | Select the tape speed override (TSO) according to the machine connected.<br>ON: TSO for AU-650, AU-620 only<br>OFF: TSO for AU-80, AU-85, AU-640, AU-660 only<br>TSO can be varied in 1% increments up to ±15%. | OFF             |

**CAUTION: TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER CHANGE OF SWITCH SETTING INSIDE THE UNIT TO AUTHORIZED SERVICE PERSONNEL.**

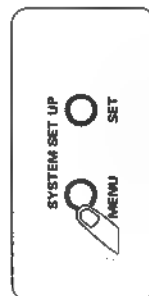
The audio output levels set by the AUDIO LINE OUT LEVEL (+40/-20 dBu) switches apply when the VU meter pointer shows 0 VU.

# Operation Method of Dial Menu Functions



1 Press the MENU button on the B1. SYSTEM CONTROL board.

The picture below appears on the monitor.  
(If changes were made previously to the set-up, the screen will show the last such change.)



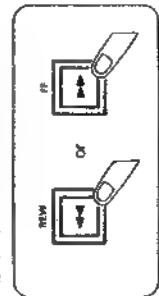
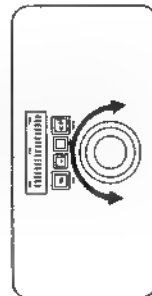
Display

SETUP-MENU  
NO. 1001

SETUP-MENU NO. 1001:  
01 STILL TIME SELECT  
02 TAPE PROTECTION SELECT  
03 STILL TIME SELECT  
04 STILL DIAL MODE SELECT  
05 STILL MAX SPEED SELECT  
06 STILL MODE AT TAPE END  
11 STILL/ON-STD SELECT

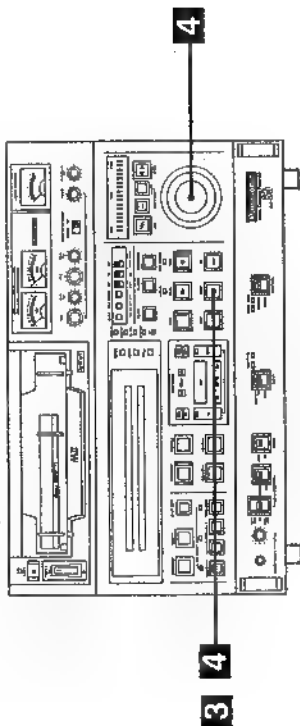
Superimpose display

2 Turn the search dial and find the setting item.

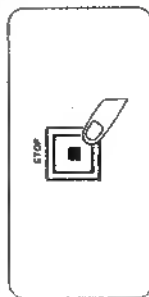


When the dial is rotated clockwise, the setting items are successively incremented (1001→1002→1003, etc.); conversely, when it is rotated counterclockwise, they are decremented.

Press the FF (page up) or REW (page down) button to change the set-up menu in page units.  
The set-up menu changes page by page.



3 Press the STOP button at the desired item.



SETUP-MENU NO. 1001-1  
STILL TIME SELECT  
5 SEC

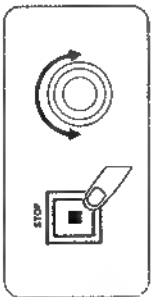
Superimpose display

The set-up display, such as that below, will appear on the screen for as long as the STOP button is held down.

Display

SETUP-MENU  
NO. 1001-1

4 Turn the search dial while holding down the STOP button.



SETUP-MENU NO. 1001-3  
STILL TIME SELECT  
30 SEC

Superimpose display

The flashing display changes. Set to the desired value.

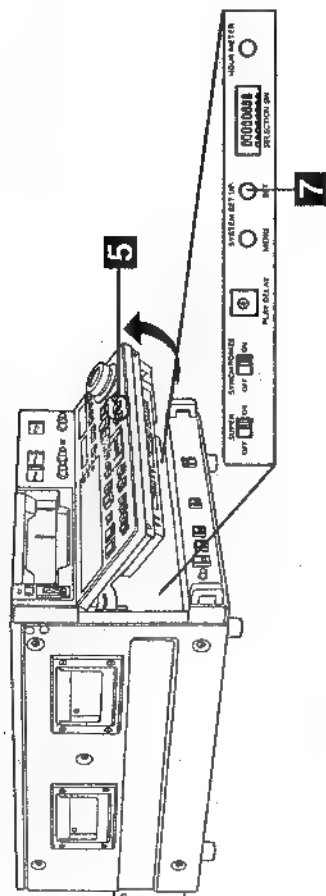
Display

SETUP-MENU  
NO. 1001-3

### Operation/function set-up items

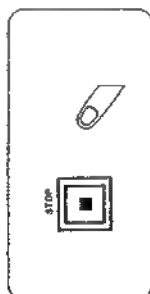
[The shading denotes the initial setting.]

| No.              | Item                  | Set-up value                                 |   | Description of function   |
|------------------|-----------------------|--|---|---|
|                  |                       | Superimpose display                          | Superimpose display   |   |
| 1001             | STILL TIME SELECT     | 00<br>01<br>02<br>03<br>04<br>05<br>06<br>07 | 0.5 SEC<br>5 SEC<br>10 SEC<br>30 SEC<br>1 MIN<br>3 MIN<br>5 MIN<br>10 MIN | When the unit is left in the STOP or STILL mode, this selects the duration of time after which the unit is automatically placed in the TAPE PROTECTION mode in order to protect the tape.   |
| 1002             | TAPE PROTECTION SEL   | 00<br>01                                     | T. RELEASE<br>READY OFF   | This selects the operation in the tape protection mode.<br>00: Tape tension release<br>01: Ready OFF mode (in conformity with No.1003)  |
| 1003             | READY OFF MODE SELECT | 00<br>01<br>02                               | DRUM ROTATE<br>DRUM STOP<br>UNLOADING                                     | Selects the operation in the READY OFF mode.<br>00: Drum rotates.<br>01: Drum stops rotating.<br>02: Unloading  |
| 1004             | SHTL DIAL MODE SELECT | 00<br>01                                     | DIRECT SHTL<br>PRESET VAR (AU-65/63)<br>NON-DIRECT (AU-62)                | Selects the operation mode for the dial in any mode except shuttle.<br>00: Direct shuttle mode<br>01: Preset variable mode/Non direct (AU-62)   |
| 1005             | SHTL MAX SPEED SELECT | 00<br>01                                     | *32<br>*16  | Selects the maximum search speed in the shuttle mode.<br>00: 32x normal tape speed<br>01: 16x normal tape speed   |
| 1007             | VTR MODE AT TAPE END  | 00<br>01                                     | STOP<br>AUTO REW  | Selects the operation after the tape-end has been detected.<br>00: Stop<br>01: Automatic rewinding to start   |
| 1011             | STD/NON-STD SELECT    | 00<br>01                                     | FRONT SWITCH<br>NON-STD   | Selects whether to forcibly establish the NSTD mode regardless of the position of the VIDEO IN/OUT switch on the front sub-panel.<br>00: As per position set by VIDEO IN/OUT switch.<br>01: NSTD mode is forcibly established.                    |
| 1012<br>PAL only | VISC CONTROL SELECT   | 00<br>01                                     | CONTROLLED<br>NOT CONTROLLED  | This uses VISC to align the subcarrier phase of the input video signal and the subcarrier phase of the encoder video output signal. (It is effective only during normal playback with CF SW 4F or 8F.)<br>00: VISC control<br>01: No VISC control |



5 Release the STOP button.

The set-up menu display returns to the screen.

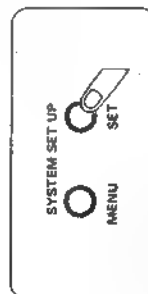


**6 Repeat steps 3 to 5.**

**Set all the set-up items to be changed to the desired values.**

**7 Press the SET button on the B1. SYSTEM CONTROL board.**

Upon completion of the setting, press the SET button on the B1. SYSTEM CONTROL board.  
The set-up changes are stored in the memory.



## REFERENCE

- To terminate operation in the mode without storing the settings in the memory:**  
Press the MENU button on the B1. SYSTEM CONTROL board.
- To return the set-up to the initial settings (set at the factory):**  
Press the RESET button while the set-up menu is displayed. The following message will now appear.

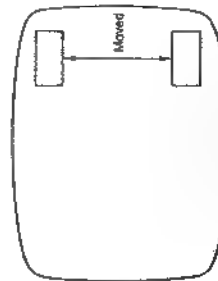
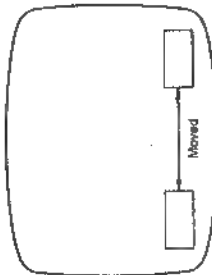
SETUP-MENU INIT. SET OK?  
(PUSH PLAY KEY)

The original settings are restored when the PLAY button is pressed.

## Superimpose set-up items

[The shading denotes the initial setting.]

| No.  | Item                 | Set-up value                                 |   | Description of function  |
|------|----------------------|--|---|--|
|      |                      | No.  | Superimpose display                                     |  |
| 2001 | CHARACTER BACKGROUND | 00<br>01                                     | Selection is made while observing superimposed display. | Selects the type of characters for the VIDEO 3 superimpose display.<br>00: Black display<br>01: Edge display<br>LTCR ***:***:***:***<br>LTCR ***:***:***:*** |
| 2002 | CHARACTER H-POSITION | 00<br>01<br>02<br>03<br>04<br>05<br>06<br>07 | Selection is made while observing superimposed display. | Selects horizontal position for VIDEO 3 superimpose display; moves characters towards right as NO. is increased.   |
| 2003 | CHARACTER V-POSITION | 00<br>01<br>02<br>03<br>04<br>05<br>06<br>07 | Selection is made while observing superimposed display. | Selects vertical position for VIDEO 3 superimpose display; moves characters down as NO. is increased.  |
|      |                      |  |   |  |
| 2004 | STATUS SUPER         | 00<br>01                                     | OFF<br>ON   | Selects whether VTR operation mode is to be indicated as a superimposed display of VIDEO 3 output signal.  |



## Remote set-up items

[The shading denotes the initial setting.]

| No.  | Item                  | Set-up value   |  | Description of function   |
|------|-----------------------|--|--|---|
|      |                       | No.  | Superimpose display  |   |
| 3001 | REMOTE OPERATION SEL  | 00<br>01<br>02<br>03   | SEPARATE<br>LOCAL+REMOTE<br>BOTH REMOTE<br>ALL OPERATION   | Selects connector which can be controlled when REMOTE switch is at REMOTE position.<br>00: Selected by CONTROL switch<br>01: Control panel and connector selected<br>02: REMOTE 1 and REMOTE 2<br>03: All operations possible                                     |
| 3002 | EJECT/STOP FNCTN REM. | 00<br>01   | POSSIBLE<br>NOT POSSIBLE   | Selects operation of panel EJECT/STOP button in remote mode.<br>00: Enables operation.<br>01: Disables operation.   |
| 3003 | 50P STOP STATUS SEL   | 00<br>01   | FLASHING<br>NOT FLASHING   | Selects whether or not to indicate by flashing the STOP status signal which is supplied to 50-pin remote connector is READY-OFF mode.<br>00: Flashing<br>01: Not flashing   |
| 3004 | 9P DEVICE TYPE SELECT | 00<br>01<br>02   | OTHER TYPES<br>OTHER TYPES 2<br>M2 ID  | Selects ID code returned in response to 9P device type request command when control is exercised using 9-pin remote connector.<br>00: 1100 (BVU-800)<br>01: 2125 (SONY 17)<br>02: MII   |
| 3005 | VTR ADDRESS           | 00<br>01<br>02<br>03<br>04<br>05<br>06<br>07<br>08<br>09<br>10<br>11<br>12<br>13<br>14<br>15 | A (8880)<br>B (8882)<br>C (8884)<br>D (8886)<br>E (8888)<br>F (888A)<br>G (888C)<br>H (888E)<br>I (8890)<br>J (88C2)<br>K (88C4)<br>L (88C6)<br>M (88C8)<br>N (88CA)<br>O (88CC)<br>P (88CE) | Sets identification number of each VTR when VTRs are connected to a multi-drop system through an RS-422 (9-pin) serial bus under the control of a special controller.<br><br>This setting is effective starting from the time when the power is next switched ON. |

## Editing set-up items

AU-65 only

[The shading denotes the initial setting.]

| Item |                      | Set-up value |                          | Description of function  |
|------|----------------------|--------------|--------------------------|--|
| No.  | Superimpose display  | No.          | Superimpose display      |  |
| 4001 | CF ADJUSTMENT SELECT | 00<br>01     | TO PLAYER<br>TO RECORDER | Selects the VTR which is to be adjusted the entered points for VTR-to-VTR editing. (0 to +3 frame)<br>00: The points on the player tape are adjusted.<br>01: The points on the recorder tape are adjusted. |
| 4002 | EDIT FIELD SELECT    | 00<br>01     | ODD<br>EVEN              | Selects the start field for editing.<br>00: Start with odd number field<br>01: Start with even number field  |
| 4003 | AUTO PREROLL ENTRY   | 00<br>01     | NOT ENTERED<br>ENTERED   | Selects whether to enter the IN point by pressing the pre-roll button when the IN point has not been entered.<br>00: Entered<br>01: Not entered  |

## Colour framing set-up items

[The shading denotes the initial setting.]

| Item |                     | Set-up value   |                     | Description of function  |
|------|---------------------|----------------|---------------------|--|
| No.  | Superimpose display | No.            | Superimpose display |  |
| 5004 | CF SELECT AT Pb OUT | 00<br>01<br>02 | AUTO<br>OFF<br>ON   | Selects whether to add the colour framing ID to the COM-<br>PONENT Pb OUT connector signal.<br>00: Forcibly added when the composite video input signal is recorded in the normal recording or assemble editing mode.<br>Added when CF lamp lights in the playback mode.<br>01: Not added<br>02: Added |

## Time code set-up items

AU-65 only

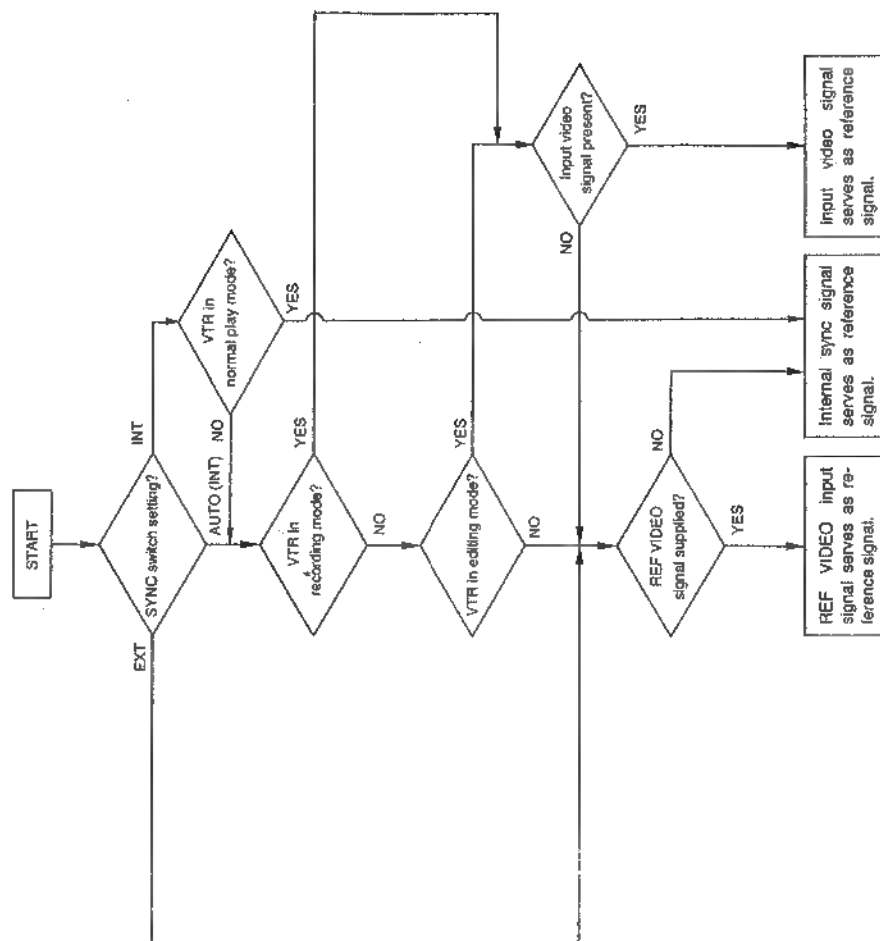
The optional AU-F65 time code generator/reader is required for these operations.

[The shading denotes the initial setting.]

| Item |                     | Set-up value |                     | Description of function   |
|------|---------------------|--------------|---------------------|---|
| No.  | Superimpose display | No.          | Superimpose display |   |
| 6001 | VITC POSITION SEL-1 |              | NTSC (Line)         | Selects VITC signal insertion line.<br>*Same line as No. 6001 cannot be selected.<br><br>Shipment mode:<br>NTSC: 16 Line<br>PAL: 15 Line  |
|      |                     | 00           | 12                  |   |
|      |                     | 01           | 13                  |   |
|      |                     | 02           | 14                  |   |
|      |                     | 03           | 16                  |   |
|      |                     | 04           | 17                  |   |
|      |                     | 05           | 18                  |   |
|      |                     | 06           | 19                  |   |
|      |                     | 07           | 20                  |   |
|      |                     | 08           | 21                  |   |
|      |                     | 09           | —                   |   |
|      |                     | 10           | —                   |   |
|      |                     | 11           | —                   |   |
| 6002 | VITC POSITION SEL-2 | 00           | 12                  | Selects VITC signal insertion line.<br>*Same line as No. 6001 cannot be selected.<br><br>Shipment mode:<br>NTSC: 16 Line<br>PAL: 15 Line  |
|      |                     | 01           | 13                  |   |
|      |                     | 02           | 14                  |   |
|      |                     | 03           | 16                  |   |
|      |                     | 04           | 17                  |   |
|      |                     | 05           | 18                  |   |
|      |                     | 06           | 19                  |   |
|      |                     | 07           | 20                  |   |
|      |                     | 08           | 21                  |   |
|      |                     | 09           | —                   |   |
|      |                     | 10           | —                   |   |
|      |                     | 11           | —                   |   |
|      |                     | 12           | —                   |   |
| 6003 | TCG REGEN MODE      | 00           | TC+UB               | Selects regeneration signal when TCG is in REGEN mode.<br>00: Regenerated for time code and user bits.<br>01: Regenerated for time code only.<br>02: Regenerated for user bits only.  |
|      |                     | 01           | TC                  |   |
|      |                     | 02           | UB                  |   |
| 6004 | REGEN AUTO MODE     | 00           | ASSEM+INSERT        | Selects whether time code is to be regenerated in VTR-to-VTR editing.<br>00: Regenerated for assemble and insert editing.<br>01: Regenerated for assemble editing.<br>02: Regenerated for insert editing.<br>03: Conforms to time code board setting. |
|      |                     | 01           | ASSEM               |   |
|      |                     | 02           | INSERT              |   |
|      |                     | 03           | TC SWITCH           |   |
| 6005 | TCG REFERENCE       | 00           | AUTO                | Selects reference signal for time code generator.<br>00: Automatically selected under same condition as servo reference.<br>01: Reference video signal serves as reference.   |
|      |                     | 01           | REF                 |   |

# Servo Reference

As the servo reference signal, this unit automatically selects the input video signal which corresponds to the INPUT switch setting, the REF VIDEO signal which is supplied from the REF VIDEO input connector or the internal sync signal (INT).  
The relationship between the unit's modes and SYNC switch positions is shown below.



## Time code set-up items

The optional AU-F65 time code generator/reader is required for these operations.

[The shading denotes the initial setting.]

| No.  | Item                 | Set-up value        |  | Description of function   |
|------|----------------------|---------------------|--|---|
|      |                      | Superimpose display | No.  |   |
| 6006 | TC OUT SIGNAL REGEN  | OFF                 | 01   | Selects waveform which is output from TIME CODE OUT connector in internal regeneration mode.<br>00: Outputs playback signals in their original form.<br>01: Regenerates and outputs playback signals only in servo lock mode. |
| 6007 | UB BINARY GROUP FLAG | NOT SPECIFIED       | 00: 01<br>10: UNASSIGNED 1<br>11: UNASSIGNED 2 | Selects mode for using user bits generated by TCG.<br>00: No character set assigned.<br>01: 8-bit character set conforming to ISO646, ISO2022.<br>10/11: Not defined  |
| 6008 | UB REAL TIME         | OFF                 | 00: 01<br>02: LTC UB<br>03: VITC UB<br>BOTH    | Sets the real time mode for the user bits.<br>00: No setting<br>01: Setting for LTC UB only<br>02: Setting for VITC UB only<br>03: Setting for both LTC UB and VITC UB  |
| 6009 | WAKEUP SELECTION     | TC                  | 00: 01   | Selects the time data display when power is ON.<br>00: TC display<br>01: CTL display  |
| 6010 | TCG CF FLAG          | OFF                 | 00: 01   | Selects whether CF flag of time code generator is to be set ON.<br>00: CF flag not set<br>01: CF flag is set, and time code generator is locked to CF of video signal during recording.                                       |

# Servo Reference (cont.)

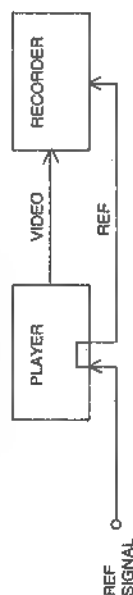
The TBC must supply the reference signal from an external source under normal circumstances.

## • Table of servo reference settings

As shown in the table below, the servo reference signal selected depends on the SYNC switch position, the operation mode of the VTR and whether an input signal is available.

| SYNC SW     | AUTO  |       |       |         | EXT   |       |       |         | INT   |       |       |         |
|-------------|-------|-------|-------|---------|-------|-------|-------|---------|-------|-------|-------|---------|
|             | REC   | EDIT  | PLAY  | NOR-MAL | REC   | EDIT  | PLAY  | NOR-MAL | REC   | EDIT  | PLAY  | NOR-MAL |
| INPUT VIDEO | YES   | YES   | YES   | YES     | YES   | YES   | YES   | YES     | YES   | YES   | YES   | YES     |
| YES         | VIDEO | VIDEO | VIDEO | VIDEO   | VIDEO | VIDEO | VIDEO | VIDEO   | VIDEO | VIDEO | VIDEO | VIDEO   |
| YES         | VIDEO | VIDEO | VIDEO | VIDEO   | VIDEO | VIDEO | VIDEO | VIDEO   | VIDEO | VIDEO | VIDEO | VIDEO   |
| NO          | REF   | REF   | REF   | REF     | REF   | REF   | REF   | REF     | REF   | REF   | REF   | REF     |
| NO          | INT   | INT   | INT   | INT     | INT   | INT   | INT   | INT     | INT   | INT   | INT   | INT     |

\*: The input video signal and REF signal must be synchronized. This mode is useful if the sync signal on the video is not reliable.



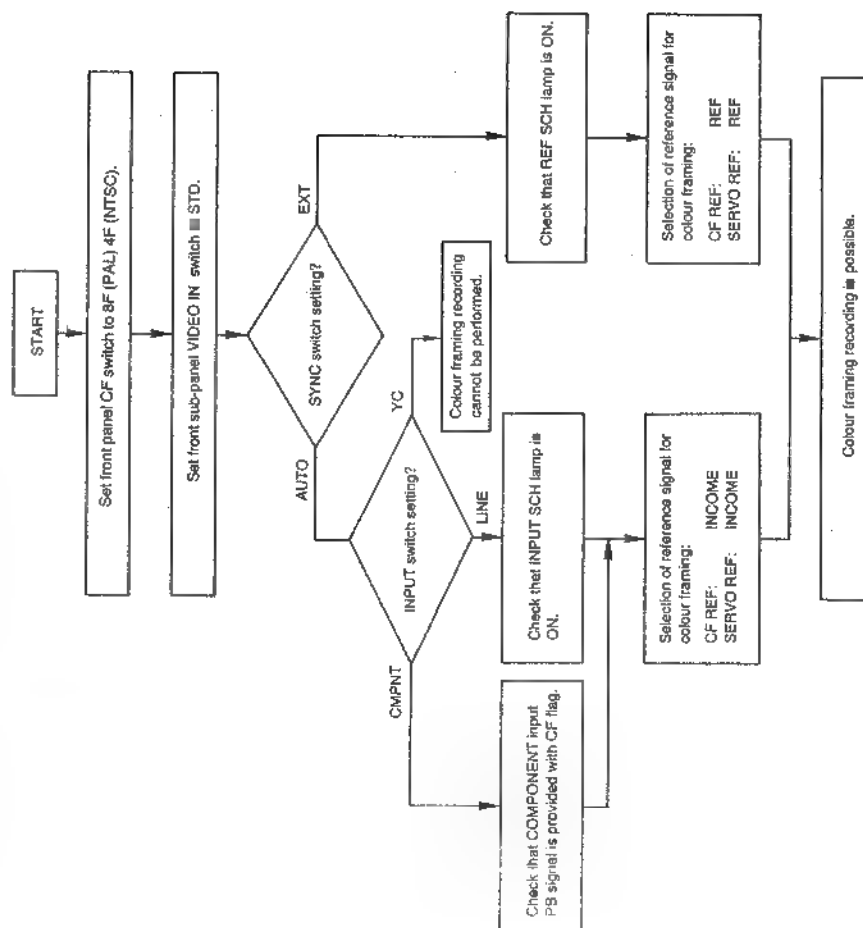
# Colour Framing

In an editing system, colour framing serves to synchronize the playback signals perfectly as to safeguard against picture jumping and phase errors.

## 1 Colour framing by the LINE and COMPONENT inputs (for recording)

### NOTES:

Connect a standard signal to the REF VIDEO and COMPONENT input connectors.  
Check that the COMPONENT input PB signal is provided with the CF flag.



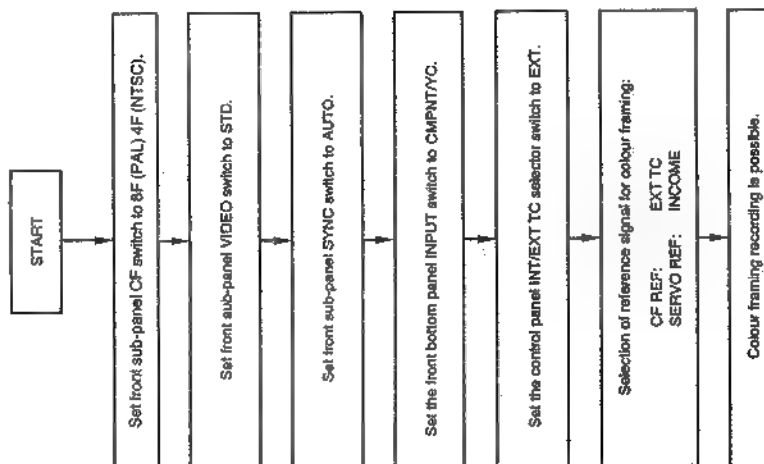


# Colour Framing (cont.)

## 2 Colour framing using EXT TC (for recording)

### NOTES:

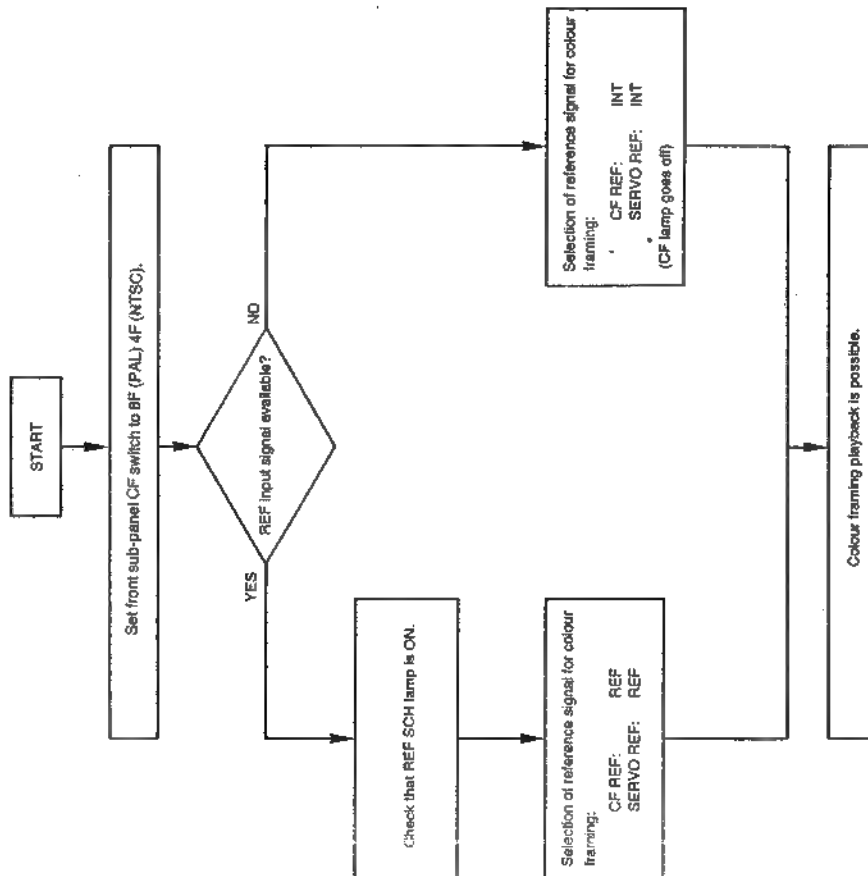
Connect a component signal without the CF flag.  
Connect a time code generator to the EXT TC input.



## 3 Colour framing during playback

### NOTE:

Play back a tape which was recorded in the colour framing mode.



# REC INHIBIT Table

1 REC INHIBIT Table

| Safety tab<br>(slide switch<br>on cassette)<br>position | REC INH<br>switch (switch<br>on back of<br>front panel)<br>position | REC PLAY<br>operation | EDIT<br>operation |     | Front panel REC INH lamp |   |   |    | Front mode lamp |     |   |   |    |   |
|---|---|-----------------------|-------------------|-----|--------------------------|---|---|----|-----------------|-----|---|---|----|---|
|   |   |                       | ASSM              | INS | REC                      | V | A | TC | ASSM            | INS | V | A | TC |   |
| OPEN *  | OFF   | No                    | No                | No  | ○                        | ○ | ○ | ○  | ○               | ○   | ○ | ■ | ■  | ■ |
|   | ON  | No                    | No                | No  | ○                        | ○ | ○ | ○  | ○               | ○   | ○ | ■ | ■  | ■ |
| CLOSED  | OFF   | Yes                   | Yes               | Yes | ●                        | ● | ● | ●  | ●               | ●   | ○ | □ | □  | □ |
|   |   | Yes                   | Yes               | Yes | ●                        | ● | ● | ●  | ●               | ○   | ○ | □ | □  | ■ |
|   |   | Yes                   | Yes               | Yes | ●                        | ● | ● | ●  | ●               | ○   | ○ | □ | □  | □ |
|   |   | Yes                   | Yes               | Yes | ●                        | ● | ○ | ○  | ○               | ○   | ○ | □ | □  | ■ |
|   |   | Yes                   | No                | Yes | ●                        | ○ | ○ | ○  | ○               | ○   | ■ | □ | □  | □ |
|   |   | Yes                   | No                | Yes | ●                        | ○ | ○ | ○  | ○               | ○   | ■ | ■ | □  | ■ |

○: When REC INHIBIT lamp is ON  
□: Can be selected

●: When REC INHIBIT lamp is OFF  
■: Cannot be selected

\*1: Valid only when cassette is in  
"down" position.

# Connector Signals

## Main connectors

## REMOTE ■ connector (9P)

| Connector      | Connector No. |
|----------------|---------------|
| YC IN          | VJS2579       |
| YC OUT         | VJS2579       |
| AUDIO IN       | VJS1920       |
| AUDIO OUT      | VJS1894       |
| REMOTE 2       | VJS1887       |
| ENCODER REMOTE | VJS1888       |

## YC Input/Output connector

| Pin No. | Connector Signal      |
|---------|-----------------------|
| 1       | Y GND                 |
| 2       | C GND                 |
| 3       | Y signal Input/output |
| 4       | C signal Input/output |

TRANSMIT and RECEIVE pins are reversed when controlled from another VTR.

## ENCODER REMOTE CONNECTOR (15P)

| Pin No. | Connector Signal      |
|---------|-----------------------|
| 1       | ---                   |
| 2       | BLACK LEVEL           |
| 3       | CHROMA LEVEL          |
| 4       | GND                   |
| 5       | +12 V                 |
| 6       | SYSTEM H <sub>0</sub> |
| 7       | SYS. SC COARSE (2)    |
| 8       | -12 V                 |
| 9       | CHROMA PHASE          |
| 10      | VIDEO LEVEL           |
| 11      | RET GND               |
| 12      | ---                   |
| 13      | ---                   |
| 14      | SYS. SC FINE          |
| 15      | SYS. SC COARSE (1)    |

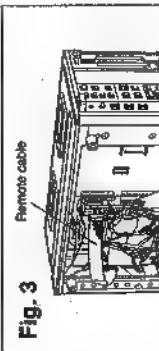
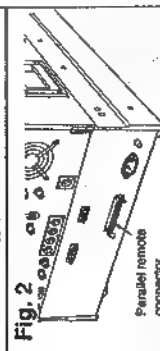
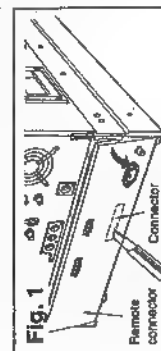
## AUDIO Input/Output connector (XLR-3P)

| Pin No. | Connector Signal |
|---------|------------------|
| 1       | GND              |
| 2       | HOT              |
| 3       | COLD             |

# Connector Signals (cont.)

Optional REMOTE 1 connector (50P) AU-MK25

| Pin No. | Connector Signal      | Pin No. | Connector Signal     |
|---------|-----------------------|---------|----------------------|
| 1       | REC COMMAND           | 26      | +12 V                |
| 2       | PLAY COMMAND          | 27      | REC STATUS           |
| 3       | FF COMMAND            | 28      | PLAY STATUS          |
| 4       | REW COMMAND           | 29      | FF STATUS            |
| 5       | STOP COMMAND          | 30      | REW STATUS           |
| 6       | PAUSE COMMAND         | 31      | STOP STATUS          |
| 7       | CUT IN COMMAND        | 32      | PAUSE STATUS         |
| 8       | CUT OUT COMMAND       | 33      | CUT IN STATUS        |
| 9       | AUDIO CH1 COMMAND     | 34      | SERVO LOCK STATUS    |
| 10      | AUDIO CH2 COMMAND     | 35      | AUDIO CH1 STATUS     |
| 11      | VIDEO COMMAND         | 36      | AUDIO CH2 STATUS     |
| 12      | TIME CODE DUB COMMAND | 37      | VIDEO STATUS         |
| 13      | SHTL COMMAND          | 38      | TIME CODE DUB STATUS |
| 14      | JOG COMMAND           | 39      | SHTL STATUS          |
| 15      | PERROLL COMMAND       | 40      | JOG STATUS           |
| 16      | EDIT COMMAND          | 41      | READY ON/OFF STATUS  |
| 17      | SEARCH 0              | 42      | REMOTE               |
| 18      | SEARCH 1              | 43      | FWD                  |
| 19      | SEARCH 2              | 44      | CTL SIGNAL           |
| 20      | READY ON/OFF COMMAND  | 45      | CTL GND              |
| 21      | —                     | 46      | CAPSTAN OVERRIDE     |
| 22      | FWD/REV COMMAND       | 47      | GND                  |
| 23      | EJECT COMMAND         | 48      | JOG CONTROL SIGNAL   |
| 24      | UNTHREAD STATUS       | 49      | JOG CONTROL GND      |
| 25      | LOCAL ENABLE COMMAND  | 50      | GND                  |



## Attaching the REMOTE 1 connector

1. Detach the remote connector section and remove the connector cover. (See Fig. 1.)
2. Attach the optional AU-MK25 REMOTE 1 connector. (See Fig. 2)
3. Use the accessory remote cable to connect the REMOTE 1 connector as shown in the figure. (See Fig. 3)
4. Attach the remote connector section.

**CAUTION:** TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL CONNECTOR TO AUTHORIZED SERVICE PERSONNEL.

# Error Messages

AU-65 only

| Display          | Description  | Operation           |
|------------------|--|---------------------|
| SERVO NOT LOCKED | Flashes during the PLAY, REC PLAY or EDIT PLAY mode when the servo system has been disengaged for 3 or more seconds.   | Continues operation |
| LOW-RF           | Flashes when dropout has been detected for 2 or more seconds while the PLAY lamp is ON and the tape is traveling at 1x speed.  | Continues operation |
| DRUM MOTOR       | Alarm sounds and message flashes when drum lock status continues for 5 or more seconds.  | Stops               |
| REEL MOTOR       | Alarm sounds and message flashes when, in capstan mode, take-up reel does not rotate while the tape is advanced by about 10 cm.  | Stops               |
| FRONT LOAD MOTOR | VTR mode is transferred to eject if cassette does not assume "down" position even when 5 seconds have elapsed after cassette was inserted.                                 | Ejects cassette     |
|                  | Alarm sounds and message flashes when cassette does not assume "up" position when VTR is transferred to eject mode and 5 seconds have elapsed after cassette was inserted. | Stops               |
| LOADING MOTOR    | VTR mode is transferred to unloading when loading operation is not completed within 10 seconds.  | Unloads tape        |
|                  | Alarm sounds and message flashes when unloading operation is not completed within 10 seconds.  | Stops               |
| PHOTO TRANSISTOR | Alarm sounds and message flashes when sensor LED has failed.   | Stops               |
| DEW              | Alarm sounds and message flashes when condensation has formed.   | • Ejects tape       |
| TAPE SLACK       | Alarm sounds and message flashes when tape is slack.   | Stops               |
| REEL DRIVE ERROR | Alarm sounds and message flashes when actual tape advance direction differs from system control command by 5 or more seconds.  | Stops               |
| DC CO V TROUBLE  | Alarm sounds and message flashes when there is something wrong with the power supply or related parts.   | Stops               |
| FAN STOP         | Alarm sounds and message flashes when fan inside power supply box stops operating.   | Continues operation |
| FG TROUBLE       | Alarm sounds and message flashes when there is something wrong with reel travel during high-speed search.  | Stops               |
| NEGATIVE         | Flashes when front panel DIP SW2-2 is ON if IN point is equal to or greater than OUT point during edit point entry.  | —                   |

\*When condensation has formed, the drum continues to rotate so that the condensation will dry out. Once it has been removed, the AUTO OFF lamp and error display is off, and the VTR can be used again.

## AU-63/62 only

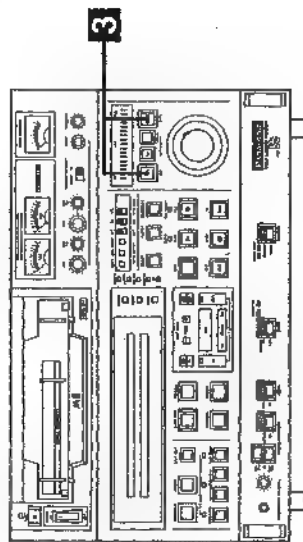
Contact your authorized dealer if any of the error messages listed below should appear on the display.

| Display                   | Description   | VTR operation        |
|---------------------------|---|----------------------|
| E-00                      | Display flashes during playback when servo disturbances continue for 3 or more seconds.   | Operation continues. |
| E-01                      | Display flashes when dropouts have been detected for more than 11 sec, during 1 X tape speed while PLAY lamp is lighted.                      | Operation continues. |
| E-10                      | Alarm sounds and display flashes when drum lock continues for 5 or more sec.  | Operation stops.     |
| E-11                      | Alarm sounds and display flashes when take-up reel does not rotate while tape is fed for about 10 cm.   | Operation stops.     |
| E-14                      | Alarm sounds and display flashes when cassette is not lowered into position even when 5 seconds have elapsed after the cassette was inserted. | Tape is ejected.     |
|                           | Alarm sounds and display flashes when cassette is not raised and ejected even when the eject mode is established and 5 seconds have elapsed.  | Operation stops.     |
| E-15                      | Alarm sounds and display flashes when loading is not completed within 10 sec.   | Tape is ejected.     |
|                           | Alarm sounds and display flashes when unloading is not completed within 10 sec.   | Operation stops.     |
| E-16                      | Alarm sounds and display flashes when sensor LED is disconnected.   | Operation stops.     |
| E-17                      | Alarm sounds and display flashes when condensation has formed.  | (*)Tape is ejected.  |
| E-18                      | Alarm sounds and display flashes when tape is sick.   | Operation stops.     |
| E-19                      | Alarm sounds and display flashes when the system control instruction and actual tape feed direction differ for more than 5 sec.               | Operation stops.     |
| E-1C<br>E-21<br>~<br>E-26 | Alarm sounds and display flashes when a failure or malfunction arises in the power supply section.  | Operation stops.     |
| E-1F                      | Alarm sounds and display flashes when the fan inside the power supply box stops operating.  | Operation continues. |
| E-20                      | Alarm sounds and display flashes when a failure or malfunction occurs to the reel transport during high-speed search.                         | Operation stops.     |

When condensation has formed, the drum rotates in order to remove the condensation.

When the condensation is removed, the AUTO OFF lamp goes off, the error display is cleared, and the VTR can be operated again.

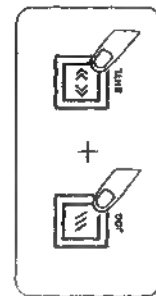
## Head Cleaning



1 Set the VTR to the stop mode.

2 Remove the cassette tape.

3 Press the JOG and SHTL buttons together.



The loading post moves in order to facilitate head cleaning.

4 Proceed with head cleaning.

Handle the parts with the utmost care. For further details, contact your dealer.

5 Upon completion of the work, perform one of the following operations.

- 1) Set the POWER switch to OFF and then back to ON.
- 2) Press the EJECT button.
- 3) Insert a cassette tape.

6 This completes the head cleaning process.

# Precaution for handling unit

## Precaution for handling unit

- **Vibration**  
Avoid using the unit in a location which is susceptible to vibration.
- **Magnetism**  
Do not bring the unit near any source of magnetism or use it near any product which generates a strong magnetic field.
- **Temperature**  
Under no circumstances should be unit be used in extremely hot or cold location or where it will be exposed to direct sunlight since its performance may deteriorate as a result.  
Operating temperature: +5°C to +40°C(41°F to 104°F)  
(The blower area at the back with the ventilation holes should be never be blocked or covered since the blower functions to keep the temperature inside the unit from rising.)
- **Humidity**  
This unit does not take kindly to humidity. Avoid using it or where it may be exposed to rain.
- **Re-location**
  - When moving the unit from place to place, eject the cassette tape first.
  - When disconnecting the power cord, be sure take hold of the power plug and unplug it from the power outlet.

## Installation

- Bear in mind the details below in the operating environment and installation space, and operational and servicing.
- Use the unit on a flat and horizontal surface.
  - In order to minimize trouble, do not place objects on top on the unit.
  - If the unit is to be mounted on a stand, use a stand which is sturdy.
  - Leave a clearance of at least 40 cm from a wall or other surface behind the unit so as to allow for ventilation and servicing.
  - If the unit is to be used on a desk or other such surface, leave a clearance of at least 20 cm above the unit to as allow for the servicing of the circuit boards. Such a clearance is not required for rack-mounting since the unit is pulled out for circuit board maintenance.

## Maintenance

- Before proceeding with maintenance, set the power switch to the OFF position, and be sure to take hold of the power plug to disconnect it from the power outlet.
- Use a soft cloth to clean the cabinet. To remove stains or stubborn dirt, wipe the unit with a dry cloth.
- Never use paint thinners or benzene.

## Storage

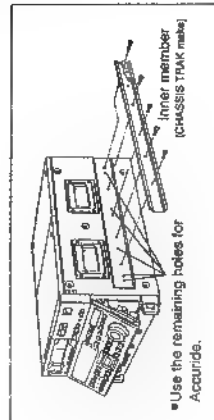
- Do not store the unit in an extremely hot or cold location.
- The unit should never be left outdoors.
- If the unit will not be used for a prolonged period of time, set its power switch to the OFF position, and be sure to take hold of the power plug and disconnect it from the power outlet. This will help prevent accidents.
- If a cassette tape in the unit, be sure to eject it.

# Rack Mounting

Using the optional AU-M60 rack-mounting adaptors, the unit can be housed in a standard IEC 48.2 cm rack. For the mounting rails, either the rails and bracket unit (part no. CC3001-99-0191) made by Chassis Trak or the rails (part no. C-2038-1215) and brackets (part no. BK-2308) made by Accuride are recommended. Consult with your dealer for further details.

## 1 Remove the 6 screws each at the left and right sides of the main unit.

## 2 Attach the inner members



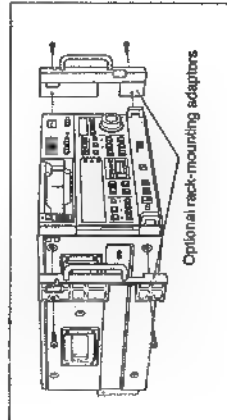
Attach the inner members of the slide rails using the screws which have just been removed.  
There is a limit to the length of the screws used. If any of the mounting screws have been lost or misplaced, use screws (MAX10) with a length of not more than 10 mm.  
Screw down the inner members in 4 or more places.

## 3 Remove the 4 rubber feet on the unit's bottom panel.

## 4 Attach the outer member brackets to the rack.

Check that the height at the left and right is the same.

## 5 Attach the optional AU-M60 rack-mounting adaptors.

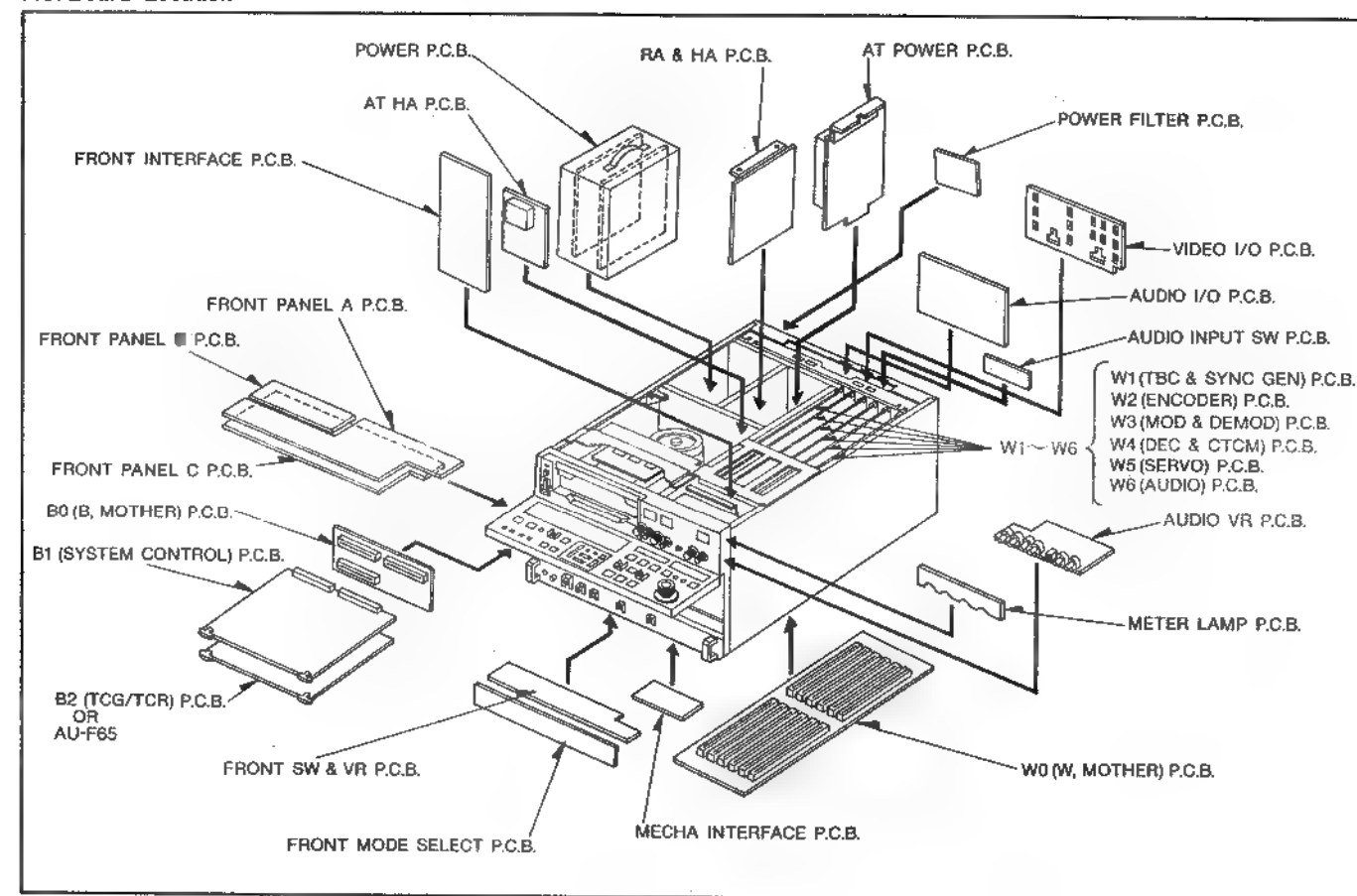


## 6 Check that the unit slides properly in and out.

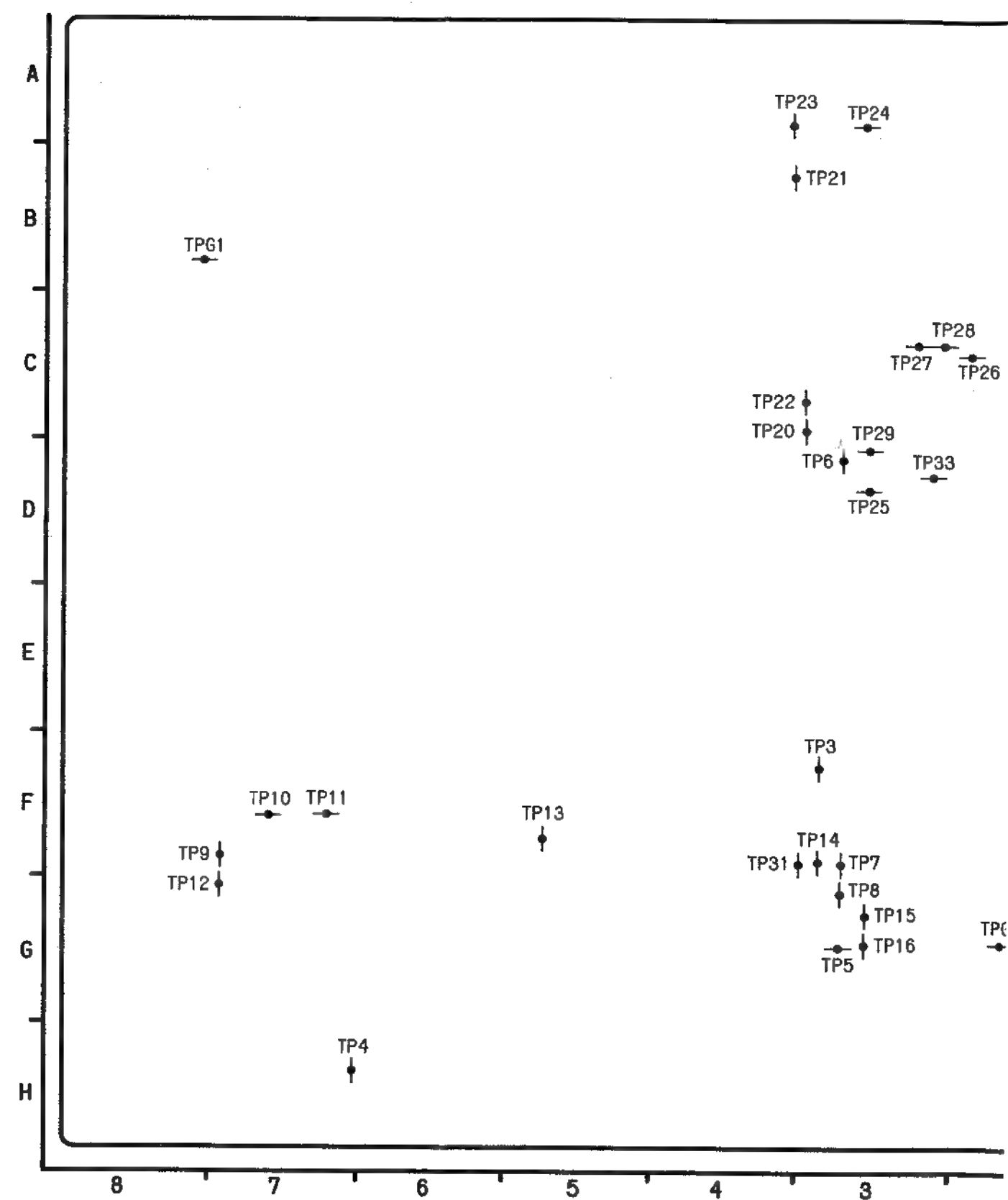
Mount the unit in the rack, and check that it slides smoothly on the rails.

# ① LOCATION OF TEST POINTS & CONTROLS (B1, AU-F65)

P.C. Board Location



## B1 SYSTEM CONTROL P.C. BOARD



The diagram illustrates the control system of a television receiver, organized on a grid with vertical labels A through H and horizontal labels 1 through 8. Components are represented by symbols: dots for test points (TP), triangles for variable resistors (VR), and rectangles for switches (SW). Lines indicate electrical connections between these components.

**Vertical Axis Labels (A-H):**

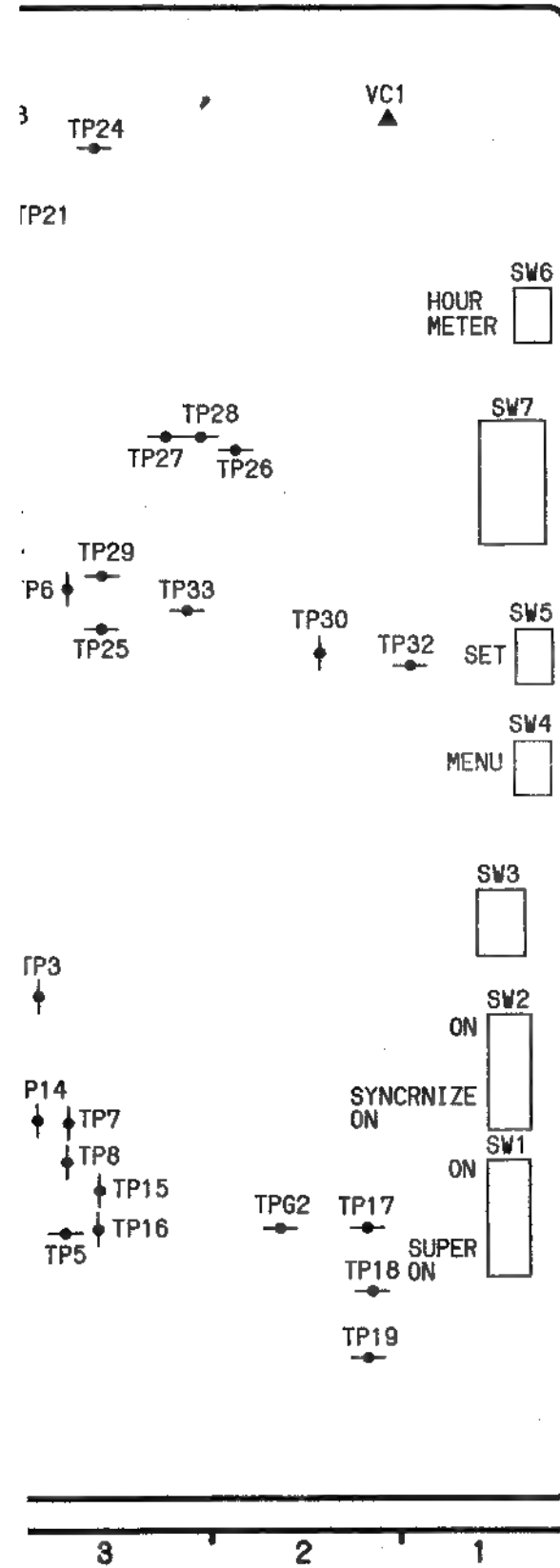
- A: TP3, TP6
- B: TP5, TP2, TP4
- C: TP1, TPG1
- D: SW3, VITC, AUTO, LTC, SW2, EXIT, INT, SW4, FREE, REC, SW1, PRESET, REGEN, SW7, OFF, VITC REC, ON
- E: TP206, ID RESET, TP204, TP205, NDF, TP208, TP203, TP207, DF, TPG201
- F: VR211, PAL BS SCH, VR207, VR206, BF WID, VR208, BURST CAL, VR209, BURST GAIN, VR210, NTSC BS SCH, VR205, BF PHASE, VR203, BS H PHASE, VR202, SCH DET, VR201, S/H PULSE, VR204, BS SC PHASE
- G: TP212, TP210, TP209, TP211
- H: TP201

**Horizontal Axis Labels (1-8):**

- 1: TPG1, SW3, VITC, AUTO, LTC, SW2, EXIT, INT, SW4, FREE, REC, SW1, PRESET, REGEN, SW7, OFF, VITC REC, ON, TP206, ID RESET, TP204, TP205, NDF, TP208, TP203, TP207, DF, TPG201, VR204, BS SC PHASE
- 2: TP208
- 3: TP209
- 4: VR211, PAL BS SCH, VR206, BF WID, VR205, BF PHASE, VR203, BS H PHASE, VR202, SCH DET, VR201, S/H PULSE, VR204, BS SC PHASE
- 5: VR207, BURST CAL, VR208, BURST GAIN, VR209, BURST GAIN
- 6: TP212, TP210, TP209, TP211
- 7: TP3, TP6, TP5, TP2, TP4, TP201
- 8: TP201

**Key Connections:**

- TP3 is connected to TP6.
- TP5 is connected to TP2.
- TP4 is connected to TP2.
- TP1 is connected to TPG1.
- TP206 is connected to ID RESET.
- TP204 is connected to ID RESET.
- TP205 is connected to NDF.
- TP208 is connected to TP203.
- TP203 is connected to TP207.
- TP207 is connected to DF.
- TPG201 is connected to DF.
- VR211 is connected to PAL BS SCH.
- VR206 is connected to BF WID.
- VR205 is connected to BF PHASE.
- VR203 is connected to BS H PHASE.
- VR202 is connected to SCH DET.
- VR201 is connected to S/H PULSE.
- VR204 is connected to BS SC PHASE.
- VR207 is connected to BURST CAL.
- VR208 is connected to BURST CAL.
- VR209 is connected to BURST GAIN.
- VR210 is connected to NTSC BS SCH.



| ■ SYSTEM CONTROL |  |     |
|------------------|--|-----|
| Adjustment       |  |     |
| VC1              |  | A-2 |
| Test Point       |  |     |
| TP3              |  | F-3 |
| TP4              |  | H-7 |
| TP5              |  | G-3 |
| TP6              |  | D-3 |
| TP7              |  | F-3 |
| TP8              |  | G-3 |
| TP9              |  | F-7 |
| TP10             |  | F-7 |
| TP11             |  | F-7 |
| TP12             |  | G-7 |
| TP13             |  | F-5 |
| TP14             |  | F-3 |
| TP15             |  | G-3 |
| TP16             |  | G-3 |
| TP17             |  | G-2 |
| TP18             |  | G-2 |
| TP19             |  | H-2 |
| TP20             |  | C-4 |
| TP21             |  | B-4 |
| TP22             |  | C-4 |
| TP23             |  | A-4 |
| TP24             |  | A-3 |
| TP25             |  | D-3 |
| TP27             |  | C-3 |
| TP28             |  | C-3 |
| TP29             |  | D-3 |
| TP30             |  | D-2 |
| TP31             |  | F-4 |
| TP32             |  | D-1 |
| TP33             |  | D-3 |
| TPG1             |  | B-8 |
| TPG2             |  | G-2 |
| Switch           |  |     |
| SW1              |  | G-1 |
| SW2              |  | F-1 |
| SW3              |  | E-1 |
| SW4              |  | D-1 |
| SW5              |  | D-1 |
| SW6              |  | B-1 |
| SW7              |  | C-1 |

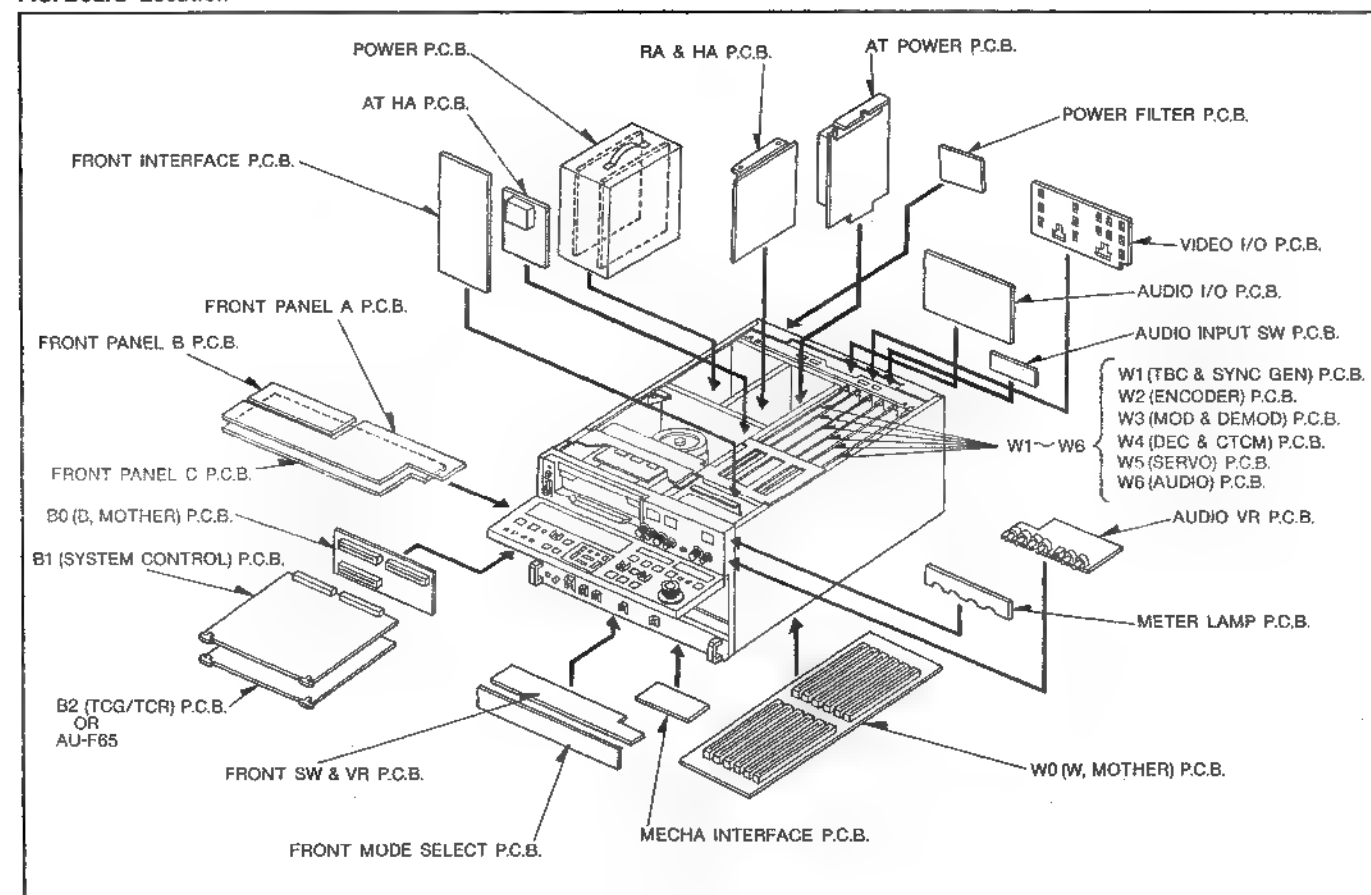
### ADDRESS INFORMATION

| B2 TCG/TCR |     |
|------------|-----|
| Adjustment |     |
| VR201      | H-5 |
| VR202      | H-6 |
| VR203      | H-5 |
| VR204      | H-2 |
| VR205      | G-5 |
| VR206      | F-5 |
| VR207      | F-5 |
| VR208      | F-5 |
| VR209      | F-5 |
| VR210      | G-6 |
| VR211      | F-4 |
| Test Point |     |
| TP1        | B-5 |
| TP2        | B-6 |
| TP3        | A-7 |
| TP4        | B-6 |
| TP5        | B-6 |
| TP6        | A-4 |
| TP201      | H-2 |
| TP202      | H-1 |
| TP203      | G-1 |
| TP204      | F-1 |
| TP205      | G-1 |
| TP206      | F-1 |
| TP207      | G-1 |
| TP208      | G-2 |
| TP209      | H-3 |
| TP210      | F-4 |
| TP211      | H-4 |
| TPG1       | B-1 |
| TPG201     | H-1 |
| Switch     |     |
| SW1        | E-1 |
| SW2        | C-1 |
| SW3        | B-1 |
| SW4        | E-1 |
| SW5        | F-1 |
| SW6        | G-1 |
| SW7        | E-1 |

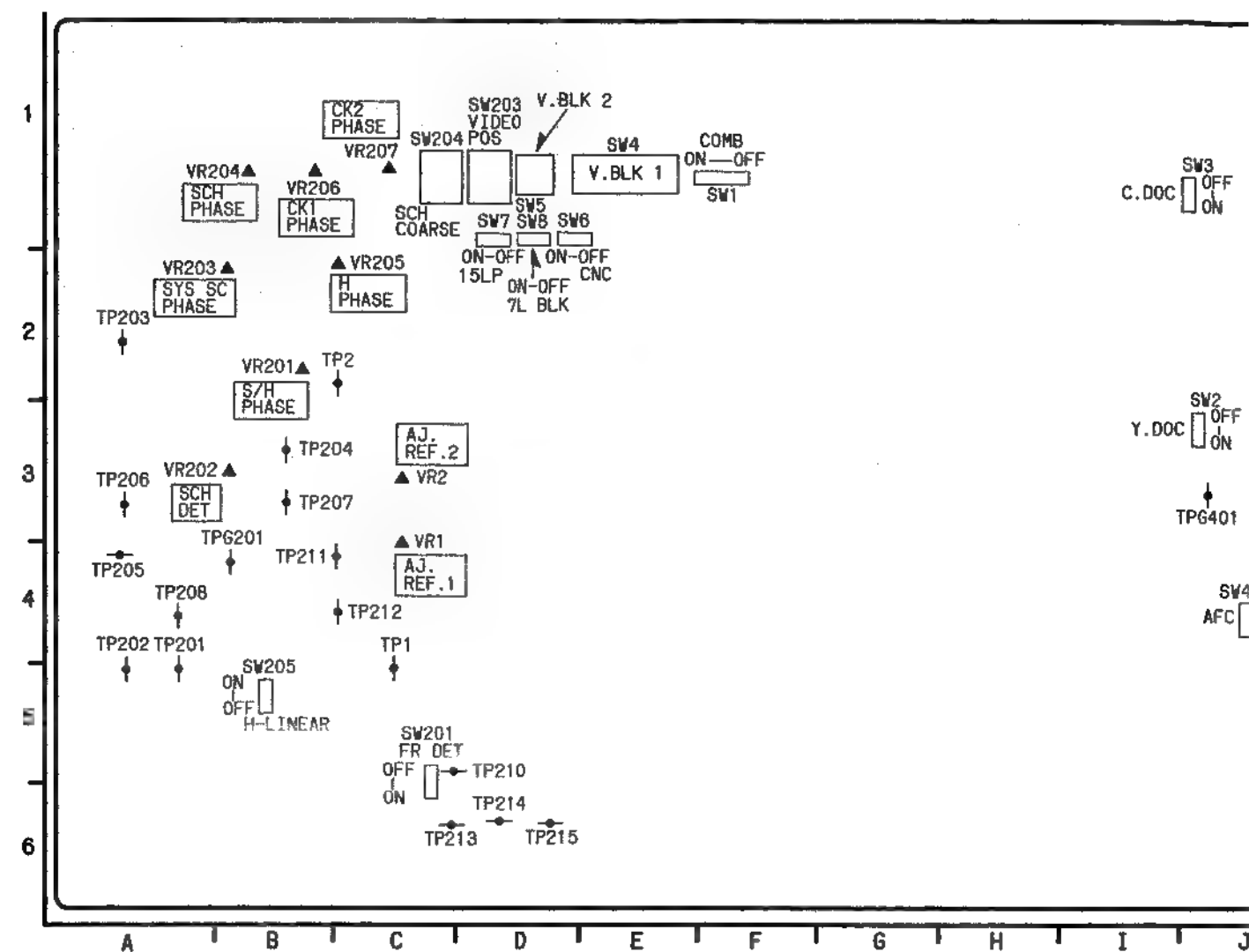
ADDRESS INFORMATION

## ② LOCATION OF TEST POINTS & CONTROLS (W1, W2)

P.C. Board Location



W1 TBC & SYNC GEN. P.C. BOARD

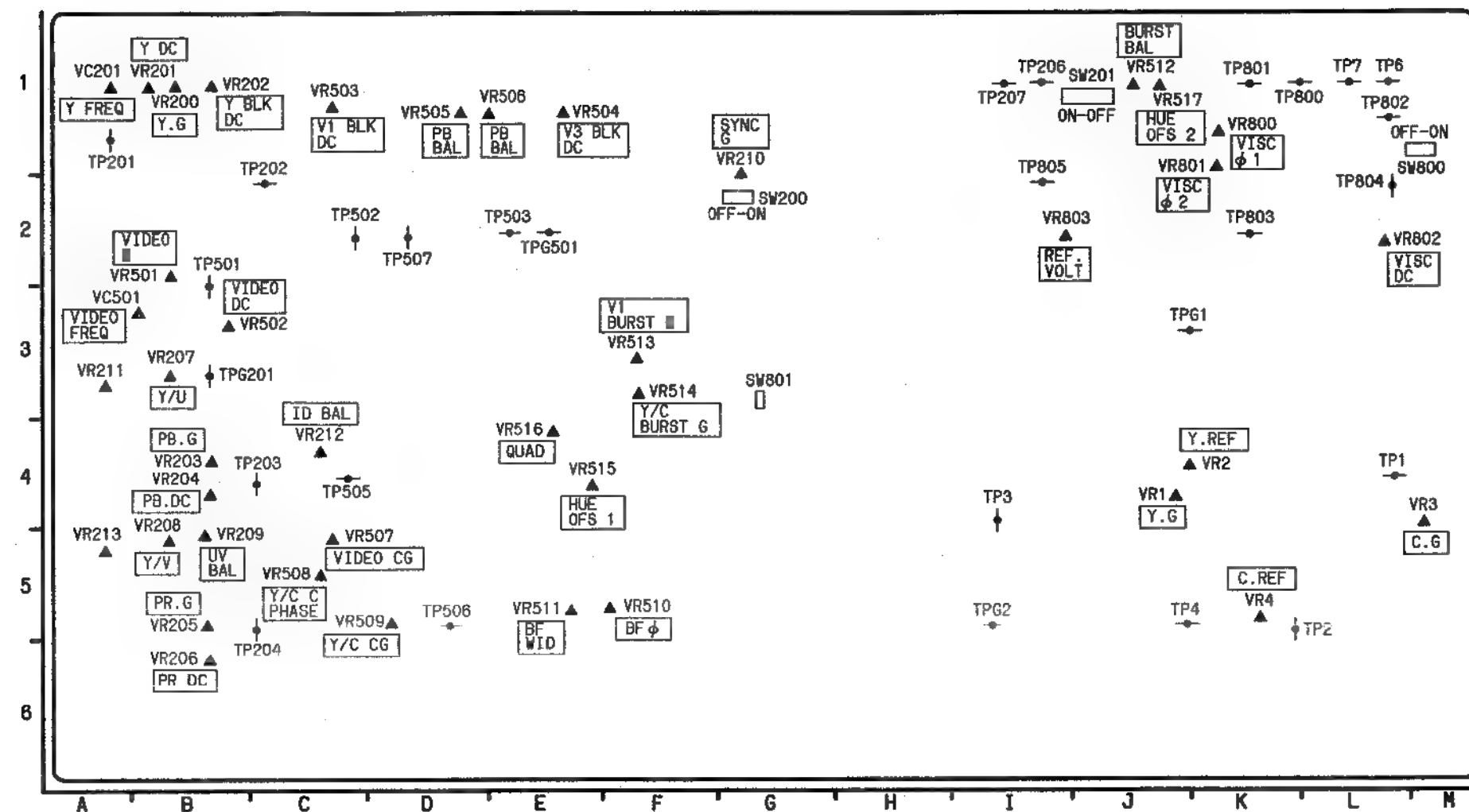
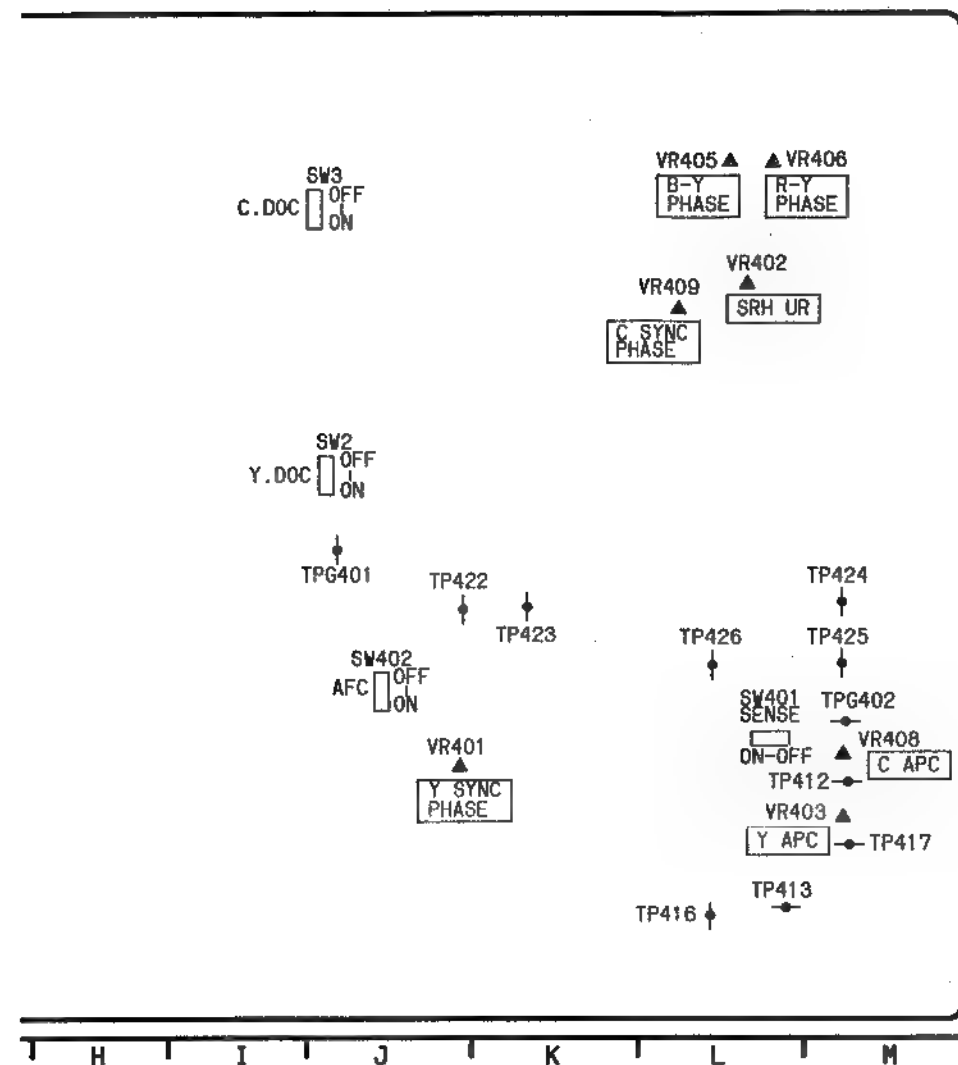


| W1 TBC & SYNC GEN. |     |       |     |        |     |
|--------------------|-----|-------|-----|--------|-----|
| Adjustment         |     | TP201 | A-4 | TP426  | L-4 |
| VR1                | C-4 | TP202 | A-4 | TPG201 | B-4 |
| VR2                | C-3 | TP203 | A-2 | TPG401 | J-3 |
| VR7                | C-1 | TP204 | B-3 | TPG402 | M-4 |
| VR201              | B-2 | TP205 | A-4 | Switch |     |
| VR202              | B-3 | TP206 | A-3 |        |     |
| VR203              | B-2 | TP207 | B-3 | SW1    | F-1 |
| VR204              | B-1 | TP208 | A-4 | SW4    | E-1 |
| VR205              | B-2 | TP210 | C-5 | SW5    | D-1 |
| VR206              | B-1 | TP211 | C-4 | SW6    | D-1 |
| VR401              | J-5 | TP212 | C-4 | SW7    | D-1 |
| VR402              | L-2 | TP213 | C-6 | SW8    | D-1 |
| VR403              | M-5 | TP214 | D-6 | SW203  | D-1 |
| VR405              | L-1 | TP215 | D-6 | SW204  | C-1 |
| VR406              | L-1 | TP412 | M-5 |        |     |
| VR408              | M-4 | TP413 | L-6 |        |     |
| VR409              | L-2 | TP416 | L-6 |        |     |
|                    |     | TP417 | M-5 |        |     |
| Test Point         |     | TP422 | J-4 |        |     |
|                    |     | TP423 | K-4 |        |     |
| TP1                | C-4 | TP424 | M-3 |        |     |
| TP2                | B-2 | TP425 | M-4 |        |     |

ADDRESS INFORMATION



# W2 ENCODER P.C.BOARD



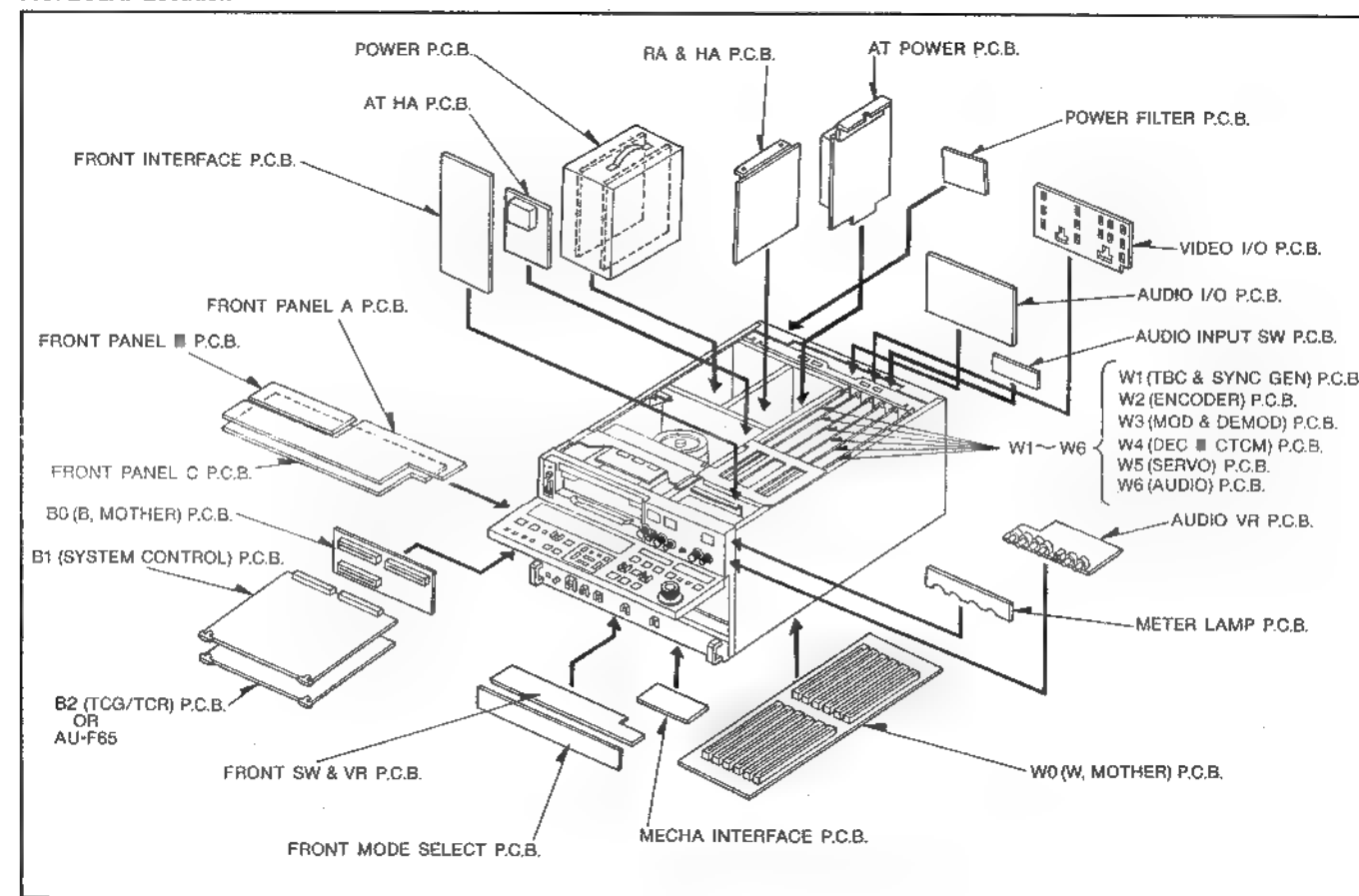
|       |     |
|-------|-----|
| P426  | L-4 |
| PG201 | B-4 |
| PG401 | J-3 |
| PG402 | M-4 |
| tch   |     |
| W1    | F-1 |
| W4    | E-1 |
| W5    | D-1 |
| W6    | D-1 |
| W7    | D-1 |
| W8    | D-1 |
| W203  | D-1 |
| W204  | C-1 |

| W2 ENCODER |     |       |     |            |     |        |     |
|------------|-----|-------|-----|------------|-----|--------|-----|
| Adjustment |     | VR213 |     | VR802      |     | TP506  |     |
| VC201      | A-1 | VR501 | A-5 | VR803      | L-2 | TP507  | D-5 |
| VC501      | B-3 | VR502 | B-3 |            | I-2 | TP800  | D-2 |
| VR1        | J-4 | VR503 | C-1 | Test Point |     | TP801  | K-1 |
| VR2        | J-4 | VR504 | E-1 | TP1        | L-4 | TP802  | L-1 |
| VR3        | M-5 | VR505 | D-1 | TP2        | K-5 | TP803  | K-2 |
| VR4        | K-5 | VR506 | D-1 | TP3        | I-4 | TP804  | L-2 |
| VR200      | B-1 | VR507 | C-5 | TP4        | J-4 | TP805  | I-2 |
| VR201      | B-1 | VR508 | C-5 | TP6        | L-1 | TPG1   | J-3 |
| VR202      | B-1 | VR509 | D-5 | TP7        | L-1 | TPG2   | I-5 |
| VR203      | B-4 | VR510 | F-5 | TP201      | A-1 | TPG201 | B-3 |
| VR204      | B-4 | VR511 | E-5 | TP202      | C-2 | TPG501 | E-2 |
| VR205      | B-5 | VR512 | J-1 | TP203      | C-4 | Switch |     |
| VR206      | B-6 | VR513 | F-3 | TP204      | C-5 | SW200  | G-2 |
| VR207      | B-3 | VR514 | F-3 | TP206      | I-1 | SW201  | J-1 |
| VR208      | B-5 | VR515 | E-4 | TP207      | I-1 | SW801  | G-3 |
| VR209      | B-5 | VR516 | E-4 | TP501      | B-2 | SW802  | L-2 |
| VR210      | G-2 | VR517 | J-1 | TP502      | C-2 |        |     |
| VR211      | A-3 | VR800 | K-1 | TP503      | E-2 |        |     |
| VR212      | C-4 | VR801 | K-1 | TP505      | C-4 |        |     |

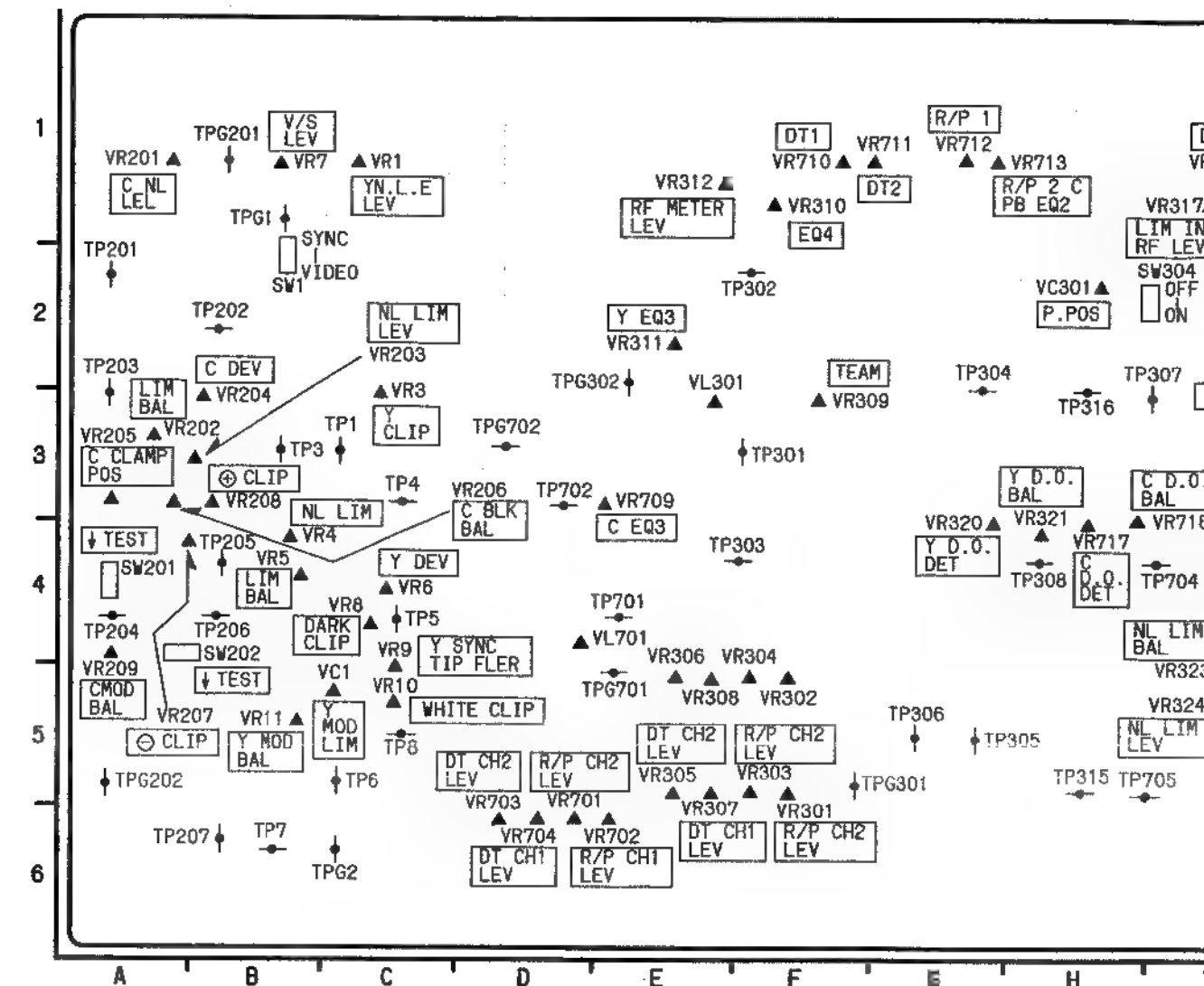
ADDRESS INFORMATION

## ③ LOCATION OF TEST POINTS & CONTROLS (W3, W4)

P.C. Board Location



W3 MOD & DEMOD P.C. BOARD



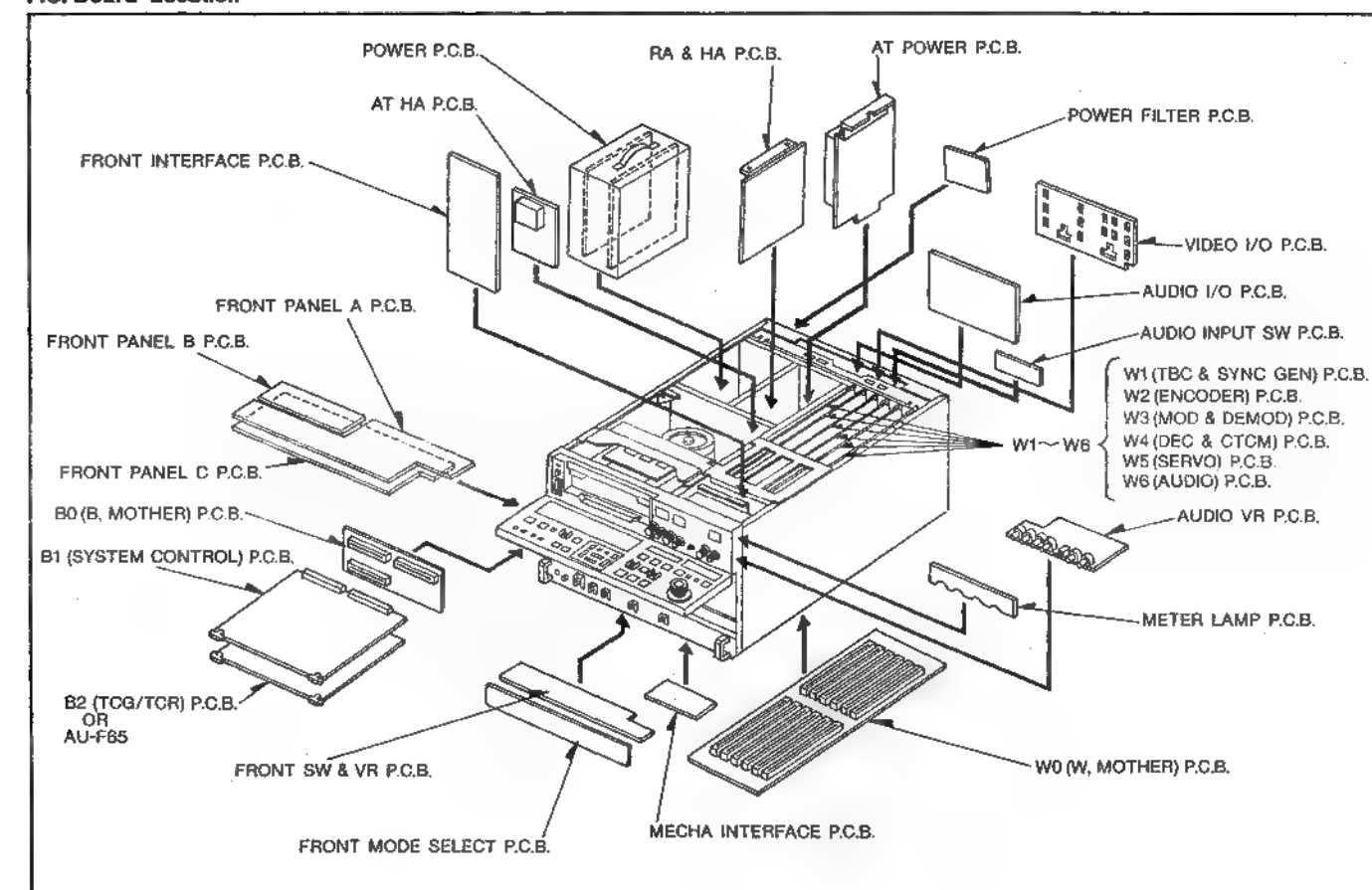
| W3 MODULATOR & DEMODULATOR |     |       |     |            |     |       |     |
|----------------------------|-----|-------|-----|------------|-----|-------|-----|
| Adjustment                 |     | VR301 | F-5 | VR331      | M-3 | TP6   | C-5 |
| VC1                        | C-5 | VR302 | F-5 | VR701      | D-6 | TP7   | B-6 |
| VC301                      | H-2 | VR303 | F-5 | VR702      | E-6 | TP8   | C-5 |
| VL301                      | E-3 | VR304 | F-5 | VR703      | D-6 | TP201 | A-2 |
| VL302                      | J-4 | VR305 | E-5 | VR704      | D-6 | TP202 | B-2 |
| VL303                      | L-3 | VR306 | E-5 | VR705      | E-3 | TP203 | A-3 |
| VL701                      | D-4 | VR307 | E-5 | VR710      | F-1 | TP204 | A-4 |
| VL702                      | J-2 | VR308 | E-5 | VR711      | F-1 | TP205 | B-4 |
| VR1                        | C-1 | VR309 | F-3 | VR712      | G-1 | TP206 | B-4 |
| VR3                        | C-3 | VR310 | F-1 | VR713      | G-1 | TP207 | B-6 |
| VR4                        | B-4 | VR311 | E-2 | VR714      | J-2 | TP303 | E-4 |
| VR5                        | B-4 | VR312 | E-1 | VR715      | L-2 | TP304 | G-3 |
| VR6                        | C-4 | VR313 | I-1 | VR716      | K-3 | TP305 | G-5 |
| VR7                        | B-1 | VR314 | J-1 | VR717      | H-4 | TP306 | G-5 |
| VR8                        | C-4 | VR315 | J-1 | VR718      | H-3 | TP307 | H-3 |
| VR9                        | C-6 | VR316 | J-1 | VR719      | K-4 | TP308 | H-4 |
| VR10                       | C-5 | VR317 | I-1 | VR720      | K-6 | TP309 | J-5 |
| VR11                       | B-5 | VR318 | I-2 | VR721      | K-5 | TP310 | J-5 |
| VR201                      | A-1 | VR319 | J-2 | VR722      | K-5 | TP311 | J-5 |
| VR202                      | A-3 | VR320 | G-4 | VR723      | L-5 | TP312 | L-3 |
| VR203                      | A-3 | VR321 | H-4 | VR724      | J-1 | TP313 | L-3 |
| VR204                      | B-3 | VR322 | I-4 | VR725      | M-4 | TP315 | H-5 |
| VR205                      | A-3 | VR323 | I-5 | VR726      | M-5 | TP316 | H-3 |
| VR206                      | A-3 | VR324 | I-5 | Test Point |     | TP317 | L-2 |
| VR207                      | A-4 | VR325 | I-5 |            |     | TP701 | E-4 |
| VR208                      | B-3 | VR326 | L-3 |            |     | TP702 | D-3 |
| VR209                      | A-4 | VR327 | K-1 |            |     | TP703 | K-1 |
| VR300                      | L-1 | VR328 | M-2 |            |     | TP704 | L-5 |
|                            |     | VR329 | L-1 | TP1        | C-3 |       | I-4 |
|                            |     |       |     | TP3        | B-3 |       |     |
|                            |     |       |     | TP4        | C-3 |       |     |
|                            |     |       |     | TP5        | C-4 |       |     |

ADDRESS INFORMATION

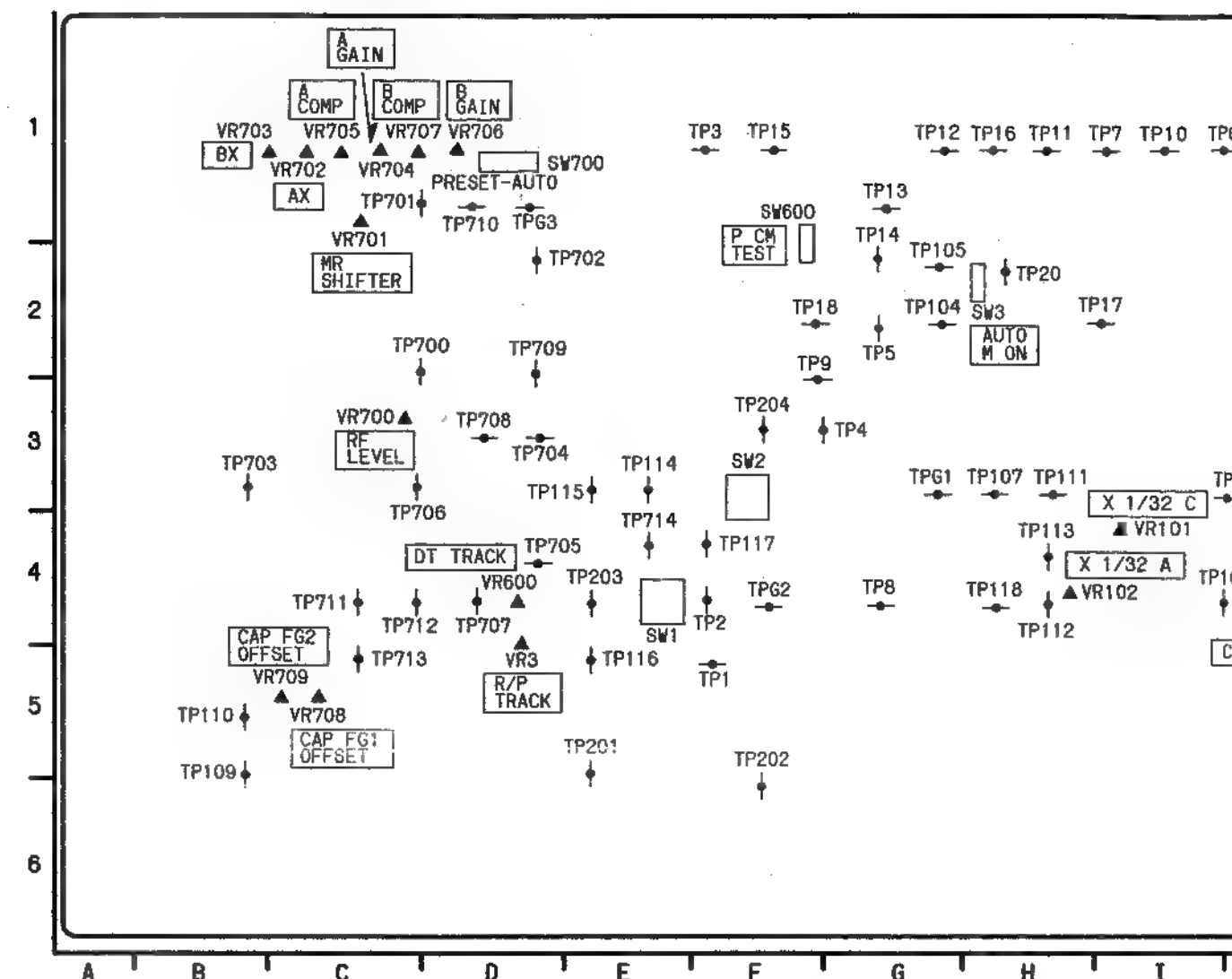


## ④ LOCATION OF TEST POINTS & CONTROLS (W5, W6)

P.C. Board Location



W5 SERVO/AT P.C. BOARD



| W5 SERVO/AT |     |            |     |       |     |       |        |  |  |
|-------------|-----|------------|-----|-------|-----|-------|--------|--|--|
| Adjustment  |     | VR707      | C-1 | TP103 | K-2 | TP312 |        |  |  |
| VC101       | J-3 | VR708      | C-6 | TP104 | G-2 | TP700 |        |  |  |
| VR1         | J-3 | VR709      | C-5 | TP105 | G-2 | TP701 |        |  |  |
| VR3         | D-4 | Test Point |     | TP106 | I-3 | TP702 |        |  |  |
| VR101       | I-4 |            |     | TP107 | H-3 | TP703 |        |  |  |
| VR102       | H-4 | TP1        | F-5 | TP108 | I-4 | TP704 |        |  |  |
| VR103       | J-4 | TP2        | F-4 | TP109 | B-5 | TP705 |        |  |  |
| VR104       | J-4 | TP3        | F-1 | TP110 | B-5 | TP706 |        |  |  |
| VR105       | J-4 | TP4        | F-3 | TP111 | H-3 | TP707 |        |  |  |
| VR301       | M-2 | TP5        | G-2 | TP112 | H-4 | TP708 |        |  |  |
| VR302       | M-6 | TP6        | I-1 | TP113 | H-4 | TP709 |        |  |  |
| VR303       | L-6 | TP7        | I-1 | TP114 | E-3 | TP710 |        |  |  |
| VR304       | M-5 | TP8        | G-4 | TP115 | E-3 | TP711 |        |  |  |
| VR305       | M-5 | TP9        | F-2 | TP116 | E-5 | TP712 |        |  |  |
| VR306       | M-5 | TP10       | I-1 | TP117 | F-4 | TP713 |        |  |  |
| VR307       | M-5 | TP11       | H-1 | TP118 | H-4 | TP714 |        |  |  |
| VR308       | L-3 | TP12       | G-1 | TP201 | E-5 | TPG1  |        |  |  |
| VR309       | L-1 | TP13       | G-1 | TP202 | F-6 | TPG2  |        |  |  |
| VR600       | D-4 | TP14       | G-2 | TP203 | E-4 | TPG3  |        |  |  |
| VR700       | C-3 | TP15       | F-1 | TP204 | F-3 |       | Switch |  |  |
| VR701       | C-1 | TP16       | H-1 | TP302 | M-2 |       |        |  |  |
| VR702       | C-1 | TP17       | I-2 | TP303 | L-6 | SW1   |        |  |  |
| VR703       | C-1 | TP18       | F-2 | TP304 | L-6 | SW2   |        |  |  |
| VR704       | C-1 | TP19       | L-6 | TP306 | M-5 | SW3   |        |  |  |
| VR705       | C-1 | TP20       | H-2 | TP309 | L-5 | SW600 |        |  |  |
| VR706       | D-1 | TP101      | J-2 | TP310 | M-3 | SW700 |        |  |  |
|             |     | TP102      | J-1 | TP311 | M-6 |       |        |  |  |

ADDRESS INFORMATION



## TECHNICAL EXPLANATIONS

This section describes general technical concepts of the AU-65, AU-63 and AU-62.

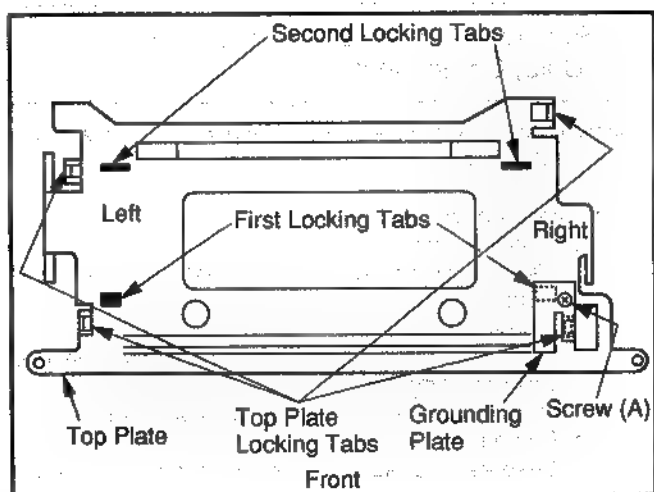


Fig. 12

Method 2 is an alternate method for loading with no tape.

Method 2 - Refer to Fig. 12.

1. Disconnect the AC Cord.
2. Place the Unit in the Service Position (1).
3. Place a jumper between TP6001 on the System Control Section of the VCR Main C.B.A. and GND.
4. Remove Screw (A) and lift (Do Not Remove) the Grounding Plate to access the right side First Locking Tab.
5. Connect the AC Cord.
6. The VCR turns ON automatically and the Cassette Holder Ass'y is loaded. The top of Set Lever L and R is locked by the First Locking Tab (Left and Right). Then the VCR turns OFF.
7. Clear the First Locking Tab (Left and Right) by pressing down the top of the Set Lever L and R.
8. Turn ON the Power Switch.
9. The top of Set Lever L and R is locked by the Second Locking Tab (Same as Step 6).
10. Clear the Second Locking Tab (Left and Right) by pressing down the top of the Set Lever L and R.
11. Turn ON the Power Switch.
12. The Cassette Holder Ass'y is in the down position and the loading operation is completed.

Method 3 is an alternate method for loading with no tape.

Method 3 - Refer to Fig. 12

1. Disconnect the AC Cord.
2. Place the Unit in the Service Position (1) and remove Screw (A). Remove Grounding Plate. Then remove the Top Plate of Cassette Up Ass'y by releasing the 4 Top Plate Locking Tabs shown in Fig. 12.

Note :

When removing the Top Plate of Cassette Up Ass'y, work with care so as not to break the locking tabs shown in Fig. 12.

3. Place a jumper between TP6001 on the System Control Section of the VCR Main C.B.A. and GND.
4. Plug in the AC Cord and place the Cassette Holder Ass'y in the down position. Then begin the loading operation sequence.

Note :

To place the Cassette Holder Ass'y in the up position, push the STOP/EJECT Button to eject.

#### Q. How to remove the Cassette Up Ass'y

1. In the order described in the Disassembly of Cabinet Parts section, remove the Back Cover Unit, VCR Unit and Top Shield Plate Ass'y.
2. Remove 2 Screws (S-11) in Fig. D9, Page 2-3.
3. Remove 2 Screws (S-18), 2 Screws (S-19), in Fig. D11, Page 2-4.

#### R. Worm Wheel Position in Eject Position

After performing mechanical alignment, the hole of the Worm Wheel is positioned at the Bottom as shown in Fig. 13. However, when the Eject operation is performed electrically, the position of the hole on the Worm Wheel is slightly shifted from the original adjustment point. This is normal operation. Do not try to readjust the Worm Gear position.

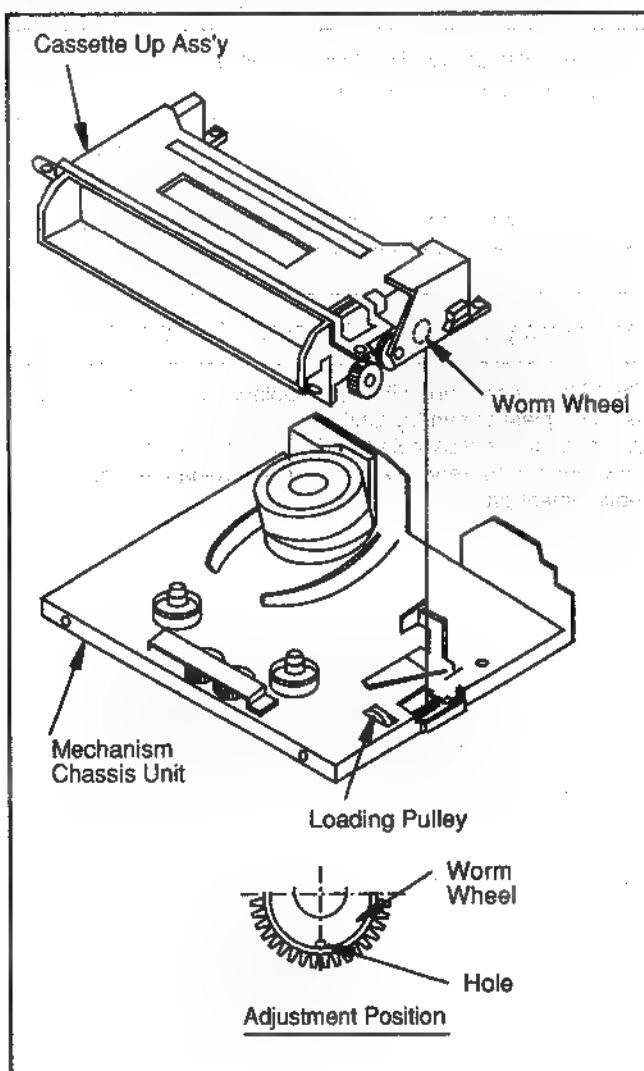


Fig. 13

### S. Black Screws on the Chassis

Black Screws are used on the Mechanism Chassis to identify screws that require adjustment.

### T. Variable Voltage Isolation Transformer

Because a Hot Chassis Ground is present in the Switched Mode Power Supply Circuit, an Isolation Transformer must be used. Also, in order to have the ability to increase the input voltage slowly, when troubleshooting this type Power Supply Circuit, a variable isolation transformer is required.

### U. High Voltage Component

Avoid touching the following High Voltage Components : CRT C.B.A., terminals on Deflection Yoke, Anode Cap, Q551 and terminals of Flyback Transformer on TV Main C.B.A.

### V. Service of UHF/VHF Tuner/TV DEMODULATOR UNIT

Since the UHF/VHF TUNER/TV DEMODULATOR UNIT has already been pre-adjusted at the factory, do not try to adjust the UHF/VHF TUNER/TV DEMODULATOR UNIT. The UHF/VHF TUNER/TV DEMODULATOR UNIT replacement part is supplied as a complete assembly unit only.

### W. Supply Unit for IR Wireless Transmitter Unit

The IR Wireless Transmitter Unit replacement part is available as a complete assembly Unit only. Do not try to disassemble the IR wireless Transmitter Unit. However, the battery cover is available separately as a replacement part.

### X. Replacement procedure for Leadless (Chip) Component

The following procedures are recommended for the replacement of the leadless components used in this Unit.

1. Preparation for replacement
  - a. Soldering Iron  
Use a pencil-type soldering iron that uses less than 30 watts.
  - b. Solder  
Eutectic Solder (Tin 63%, Lead 37%) is recommended.
  - c. Soldering time  
Do not apply heat for more than 4 seconds.
  - d. Preheating  
Leadless capacitor must be preheated before installation. - (266°F ~ 302°F)  
(130°C ~ 150°C) for about two minutes.

**Note:**

- a. Leadless component must not be reused after removal.
- b. Excessive mechanical stress and rubbing of the component electrode must be avoided.

2. Removing the leadless component  
Grasp the leadless component body with tweezers and alternately apply heat to both electrodes. When the solder on both electrodes is melted, remove leadless component with a twisting motion.

**Note:**

- a. Do not attempt to lift the component off the board until the component is completely disconnected from the board by a twisting action.
- b. Be careful not to break the copper foil on the printed circuit board.

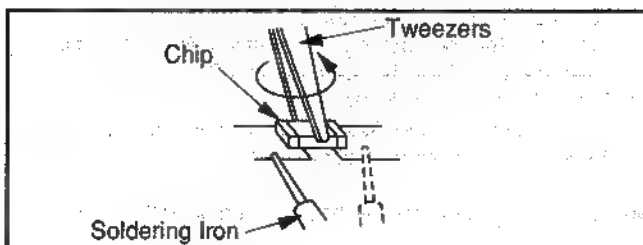


Fig. 14-1

3. Installing the leadless component
  - a. Presolder the contact points on the circuit board.

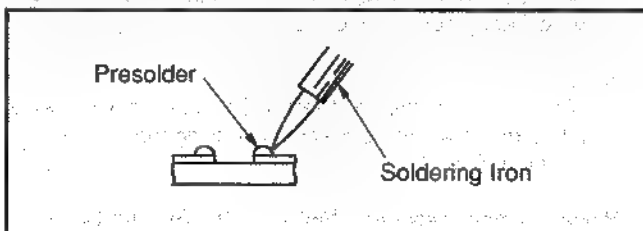


Fig. 14-2



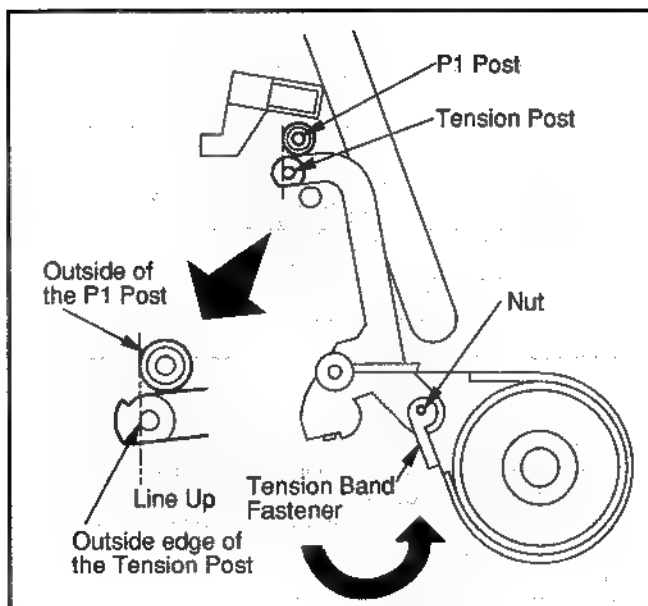


Fig. M7

## 5. MEASUREMENT AND ADJUSTMENT OF BACK TENSION

### Purpose :

To fine adjust the Back Tension so that the tape runs smoothly with a constant tension.

### Symptom of Misadjustment :

- 1) If the tape tension is less than the specified value, the tape cannot come into proper contact with the Video Heads, resulting in poor picture playback.
- 2) If the tape tension is too high, the tape will soon be damaged.

### A : Measurement Procedure

#### \*Equipment Required :

Back Tension Meter (Made in U.S.A., Purchase Locally)  
VHS Cassette Tape (120-Minute Tape)

\*Specification ..... 20 ~ 25g

1. Remove the Top Cover.
2. Play back ■ T120 cassette tape from its beginning for approx. 10 to 20 seconds, until the tape's movement has stabilized.
3. Insert a Tension Meter into tape path and confirm the reading.
4. If the reading is out of specification, do the adjustment procedure.

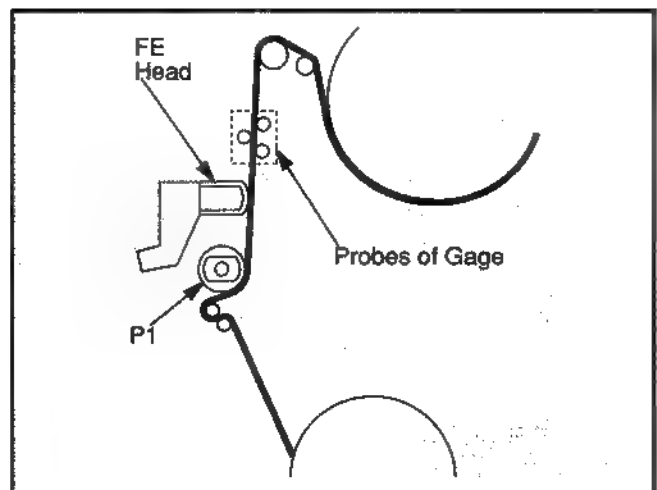


Fig. M8

### Note :

1. Be sure that the three probes of the meter are all in solid contact with the tape, but out of contact with any other parts while measuring.
2. It is recommended that measurements be taken three times because the tension meter is very sensitive to external vibrations.

### B : Adjustment Procedure

1. Remove the Cassette Up Ass'y. Then re-position the Tension Spring on the Tension Arm Base Teeth in either direction as indicated by the arrow to obtain the specified tension. (See Fig. M9).
2. Re-position the Tension Spring toward the front to increase tension, or toward the rear to decrease tension.
3. Reinstall the Cassette Up Ass'y and verify tension with the meter once again.
4. Reinstall the cabinet parts.

### Note :

If the specified tension is not obtained even if the Tension Spring is re-positioned, replace the Tension Spring, replace the Tension Band, clean the Reel Table, or be sure there is no dust between the Tension Band and the Reel Table.

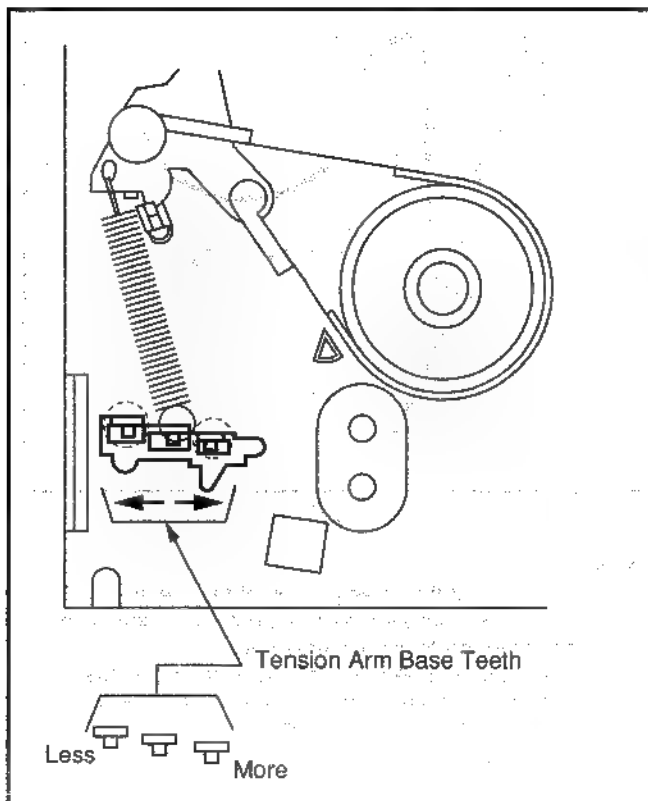


Fig. M9

## 6. HEIGHT ADJUSTMENT OF REEL TABLES

### Purpose :

To properly align the height of the tape wound on the Supply and Take-Up Reels.

### Symptom of Misadjustment :

If the height of the tape is not properly aligned, the tape will eventually be damaged.

### \* Equipment Required :

Post Adjustment Plate ..... (VFKS0010)  
Reel Table Height Fixture ..... (VFKS0009)

\* Specification .....  $0 \pm 0.1\text{mm}$

1. Remove the Cassette Up Ass'y.
2. Place the Post Adjustment Plate over the reels, and put the fixture on it. Set the fixture to zero ("0") and ensure that the foot of the fixture touches the cut-out portion of the plate.

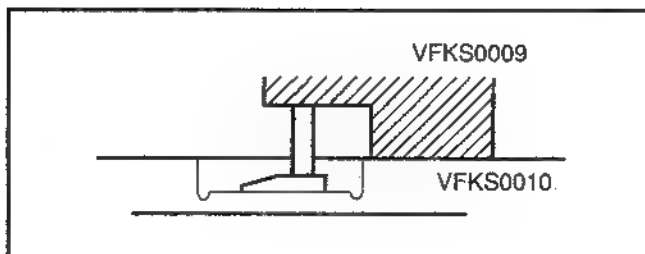


Fig. M10-1

3. Then measure the top portion of the Reel Table and compare the difference against the result of the measurement taken in the above step. Do the same for the other reel table.

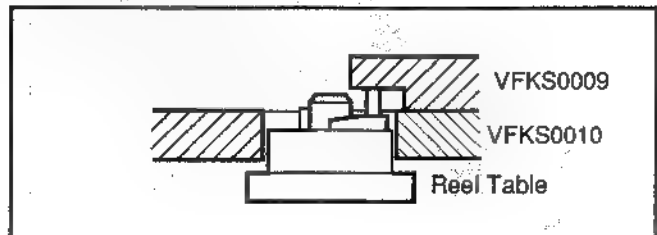


Fig. M10-2

4. If the difference is more than 0.1 mm (higher or lower), adjust the height of the reel table to obtain the specified height.
5. For adjustment, change the poly washer located under the reel table. (The washer is available in only one size of 0.13mm thick.) Move the locking tab to remove the reel table.
6. Reinstall the Cassette Up Ass'y and the cabinet parts.

## 7. HEIGHT ADJUSTMENT OF TAPE GUIDE POSTS (PRELIMINARY ADJUSTMENT)

### \*Equipment Required :

Lock Screw Wrench ..... (VFKS0032)  
Post Adjustment Plate ..... (VFKS0010)  
Reel Table Height Fixture ..... (VFKS0009)  
Post Adjustment Screwdriver ..... (VFK0329)

### 7-A. HEIGHT ADJUSTMENT OF P2 AND P3

### Purpose :

To properly align the position of the tape with the Cylinder Lead so that the tape runs with stability.

### Symptom of Misadjustment :

- 1) Since the Envelope Waveform Signal cannot be tracked properly, the Playback picture will be poor.
- 2) Since the tape does not run smoothly, the tape will eventually be damaged.
- 3) Tape interchangeability is poor.

1. Remove the Cassette Up Ass'y.  
Then install the Post Adjustment Plate.

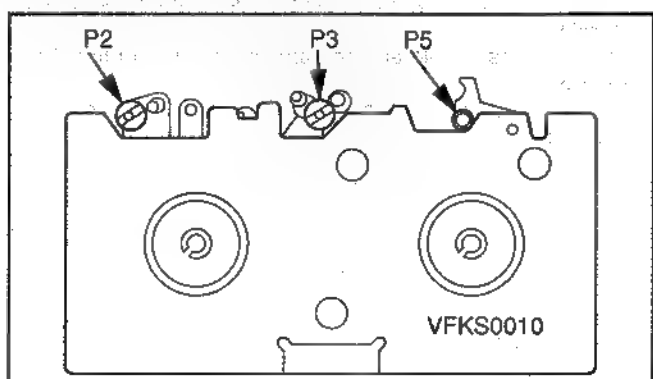


Fig. M11-1

2. First, lower all posts to match the height condition as shown in Fig. M11-2.

The upper edge of the lower tape guide on each post should be below the bottom of the foot. Loosen Black Lock Screws located at the lower portion of the posts (P2 & P3) using Lock Screw Wrench, then turn the posts with ■ Post Adjustment Screwdriver.

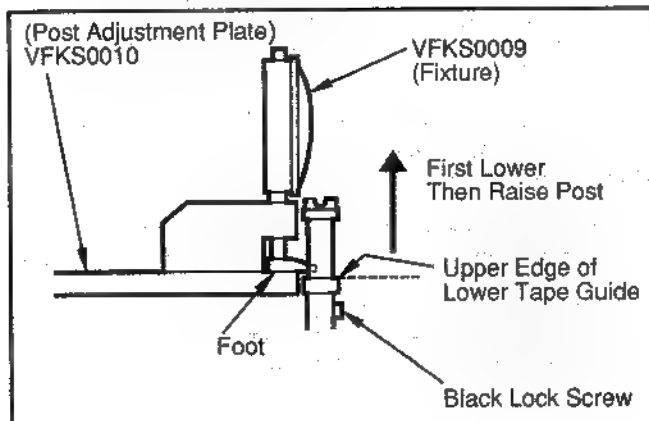


Fig. M11-2

3. Place the fixture on the Post Adjustment Plate and fit the foot to the Adjustment Plate as shown in Fig. M11-2. (The foot of the fixture should be fully lowered until it touches the plate.)
4. Set the fixture to zero ("0") and slowly raise the post until it just touches the foot. When the foot touches the post, it should fit as shown in Fig. M11-3 (b). For adjustment of P2 and P3, use ■ Post Adjustment Screwdriver.

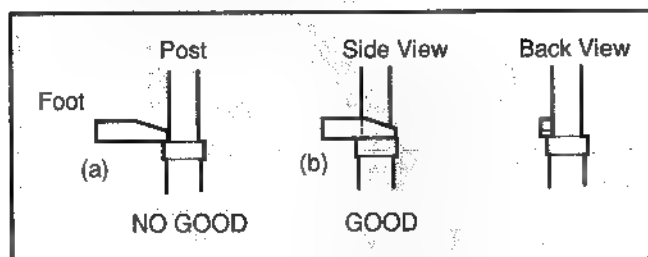


Fig. M11-3

**Note:**

Upon completion of adjustment, tighten the Black Lock Screws on P2 and P3 using the Lock Screw Wrench.

## 7-B. HEIGHT ADJUSTMENT OF P5 ARM UNIT

**Purpose :**

To properly align the Phase and Speed Controls during the CUE/REVIEW Modes and perform the CUE/REVIEW operations without any small additional noise in the picture.

**Symptom of Misadjustment :**

- 1) Noticeable noise appears in the picture.
- 2) The tape will eventually be damaged.

**\*Equipment Required :**

Post Adjustment Plate ..... (VFKS0010)  
Reel Table Height Fixture ..... (VFKS0009)  
Nut Driver (5.5mm) ..... Purchase Locally

**\*Specification** ..... 0 (+0, -0.08) mm

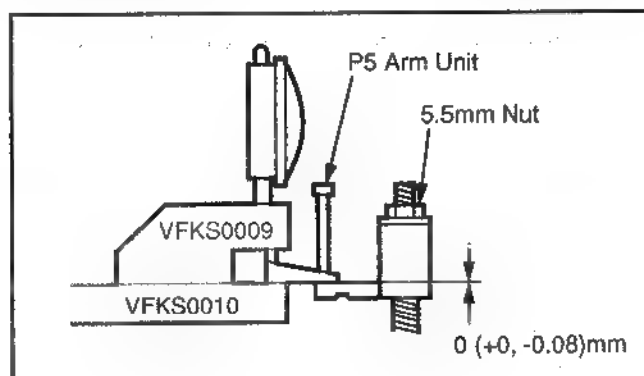


Fig. M11-4

1. Place the Post Adjustment Plate over the Reels, and put the Fixture on it. Set the Fixture to zero ("0") when the foot just touches the Post Adjustment Plate.
2. Slightly raise the P5 post above the plate by turning the 5.5mm Nut counterclockwise. Place the foot on the post as shown in Fig. M11-4.
3. Then slowly turn the 5.5mm Nut clockwise until the fixture reads the specified height.
4. Remove the Post Adjustment Plate. Reinstall the Cassette Up Ass'y and the cabinet parts.

**Note:**

Upon completion of the above procedure, play back the tape and confirm that the tape runs properly without curling between the lower and upper limits of the P5 Post. Also confirm that the tape is running smoothly. If adjustment is required, slightly turn the 5.5mm Nut until the curling smooths out.

## 8. TAPE INTERCHANGEABILITY ADJUSTMENT (FINAL ADJUSTMENT)

### Note :

To perform these adjustment/confirmation procedures, set Tracking to the Neutral position.

### \*Equipment Required :

Dual Trace Oscilloscope  
VHS Alignment Tape ..... (VFMS0001H6)  
Post Adjustment Screwdriver ..... (VFK0329)  
H-Position Adjustment Screwdriver ..... (VFKS0080)  
Lock Screw Wrench ..... (VFKS0032)

## 8-A. CONFIRMATION OF TAPE TRAVEL

### Purpose :

To be sure that the tape runs smoothly.

### Symptom of Misadjustment :

If the tape travels with instability, the tape will be damaged.

1. Play back a T120 cassette tape and confirm that the tape travels without curling at the upper and lower guides on posts P2 and P3.

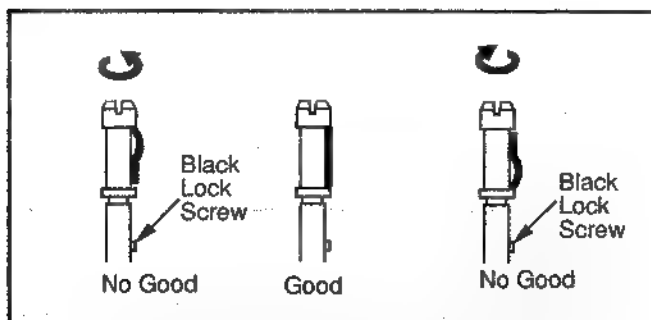


Fig. M12

2. If curling is apparent, adjust the height of the posts by turning the top of the post with the Post Adjustment Screwdriver (for P2 & P3).

### Note:

Before turning P2 and P3, slightly loosen the Black Lock Screw using the Lock Screw Wrench.

## 8-B. CONFIRMATION OF A/C HEAD HEIGHT

The height of the A/C Head replacement part assembly has already been adjusted at the factory.

### Purpose :

To be sure the tape runs properly along the Control Head.

### Symptom of Misadjustment :

If the control signal is not properly picked up, Servo Operation cannot be achieved. A Blue screen will be seen in Playback.

This confirmation is required when the A/C Head is replaced and for a preliminary height adjustment. For final adjustments, do Items 8-C and 8-D.

1. Looking at the lower edge of the Control Head with the T120 tape in motion, ensure that the lower edge of the tape runs 0.25mm above the lower edge of the control head. If it doesn't, turn Black Screws (A), (B), and (C) slightly in either direction as necessary to correct it. Turn clockwise to lower the head and counterclockwise to raise it. When turning Screws (A), (B), and (C), they must each be turned the same amount.

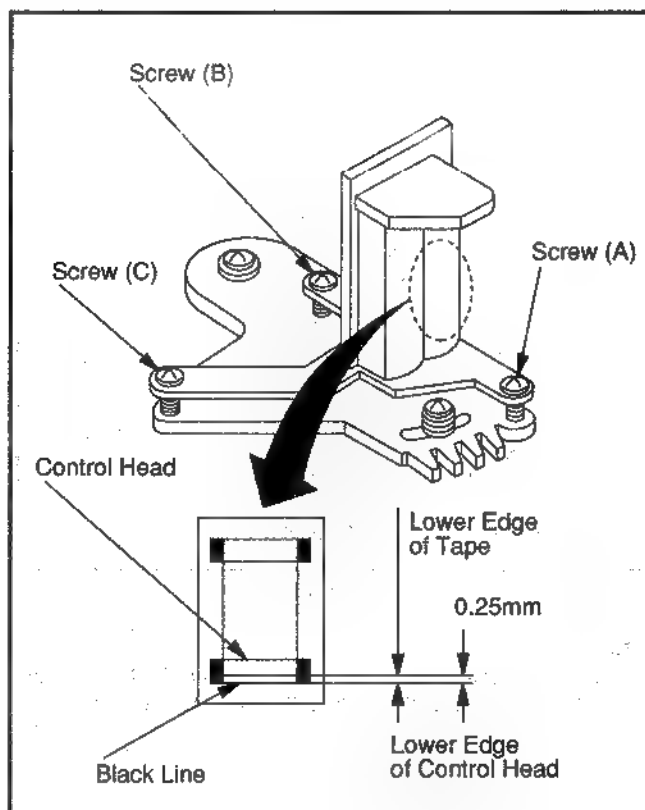


Fig. M13

# 1. GENERAL (FOR NTSC: AU-665/65/63/62 & PAL: AU-65/63/62)

## 1-1. Introduction

Since its introduction in 1986, the MII format has played a key role in the world of broadcasting and professional video production. MII VTRs were also used for by America's NBC and South Korea's KBS to cover the 1988 Seoul Olympics, and are in daily use with broadcasters throughout Europe. MI has drawn worldwide praise for its outstanding performance, superior picture and sound quality, 95-minute recording capability and compact, lightweight design. Above all, though, its ability to support integrated use from ENG and EFP to studio editing and automated transmission. Now we are introducing a new generation of MII equipment, incorporating innovative technology which responds to the user needs that emerged in the four years since MII's inception.

This new lineup brings professional video users outstanding quality to advanced features, easy operation and high cost-performance ratio.

We shall introduce the recording system, signal processing and other notable features of the MII Format in this report.

### AU-665 (NTSC)

#### Video

Television Format: NTSC: 525 lines, 60 fields  
Modulation System: Y: Frequency Modulation  
C: Time compressed multiplexing

#### Bandwidth:

Component Y: 30Hz~4.5MHz, +0.5/-3.0dB  
C (P<sub>B</sub>, P<sub>R</sub>): 30Hz~1.5MHz, +0.5/-3.0dB

#### S/N Ratio:

Component Y: Better than 50dB  
Composite Y: Better than 48dB  
C (AM, PM): Better than 52dB

#### YC Delay:

Less than 20ns

#### K Factor:

Less than 2%

#### Differential Gain:

Less than 2%

#### Differential Phase:

Less than 2°

#### Linearity:

Less than 3% (Component)

#### Audio

##### Linear (CH1/CH2)

Frequency Response: 50Hz~15kHz, +2.0/-3.0dB

S/N Ratio: Better than 56dB

(at 3% distortion) (Dolby NR off)

(CCIR) Better than 74dB

(Dolby NR on)

Distortion: Less than 0.8% at 1kHz

standard

Cross Talk: Less than -60dB (1kHz)

Erase Ratio (at 1kHz): Less than -70dB

Wow and Flutter: Less than 0.15% (DIN WTD)

Phase: ±20° (at 15kHz)

##### FM (CH3/CH4)

Frequency Response: 20Hz~20kHz, +1.0/-2.0dB

Dynamic Range: More than 80dB

Distortion: Less than 0.5% at 1kHz

standard

Cross Talk: Less than -65dB (1kHz)

Phase: ±10° (at 15kHz)

### AU-65/63/62 (NTSC)

#### Video

Television Format: NTSC: 525 lines, 60 fields  
Modulation System: Y: Frequency Modulation  
C: Time compressed multiplexing

#### Bandwidth:

Component Y: 30Hz~4.5MHz, +1.0/-4.0dB  
C (P<sub>B</sub>, P<sub>R</sub>): 30Hz~1.5MHz, +0.5/-3.0dB

#### S/N Ratio:

Component Y: Better than 49dB  
Composite Y: Better than 47dB  
C (AM, PM): Better than 50dB

#### YC Delay:

Less than 20ns

#### K Factor:

Less than 2%

#### Differential Gain:

Less than 3%

#### Differential Phase:

Less than 3°

#### Linearity:

Less than 3% (Component)

#### Audio

##### Linear (CH1/CH2)

Frequency Response: 50Hz~15kHz, +2.0/-3.0dB

S/N Ratio: Better than 56dB

(at 3% distortion) (Dolby NR off)

(CCIR) Better than 74dB

(Dolby NR on)

Distortion: Less than 1.0% at 1kHz

standard

Erase Ratio (at 1kHz): Less than -65dB

Wow and Flutter: Less than 0.15% (DIN WTD)

##### FM (CH3/CH4)

Frequency Response: 20Hz~20kHz, +1.0/-2.0dB

Dynamic Range: More than 80dB

Distortion: Less than 0.5% at 1kHz

standard

Cross Talk: Less than -65dB (1kHz)

Table 1(a) Specifications for AU-665 (NTSC)

Table 1(b) Specifications for AU-65/63/62 (NTSC)

## AU-65/63/62 (PAL)

### Video

|                                       |  |
|---------------------------------------|--|
| Television Format:                    | PAL: 625 lines, 50 fields                                  |
| Modulation System:                    | Y: Frequency Modulation<br>C: Time compressed multiplexing |
| Bandwidth:                            |  |
| Component Y:                          | 25 Hz~5.0 MHz, +1.0/-2.0 dB                                |
| C (P <sub>B</sub> , P <sub>R</sub> ): | 25 Hz~1.8 MHz, +0.5/-2.0 dB                                |
| S/N Ratio:                            |  |
| Component Y:                          | Better than 47 dB  |
| Composite Y:                          | Better than 48 dB  |
| C (AM, PM):                           | Better than 50 dB  |
| YC Delay:                             | Less than 20 ns  |
| K Factor:                             | Less than 2% (Y)   |
| Differential Gain:                    | Less than 3%   |
| Differential Phase:                   | Less than 3°   |
| Linearity:                            | Less than 3% (Component)                                   |

### Audio

#### Linear (CH1/CH2)

|                         |                             |
|-------------------------|-----------------------------|
| Frequency Response:     | 50 Hz~15 kHz, +2.0/-3.0 dB  |
| S/N Ratio:              | Better than 56 dB           |
| (at 3% distortion)      | (Dolby NR off)              |
| Distortion:             | Less than at 1 kHz standard |
| Cross Talk:             | Less than -65 dB (1 kHz)    |
| Erase Ratio (at 1 kHz): | Less than -65 dB            |
| Wow and Flutter:        | Less than 0.15% (DIN WTD)   |
| Phase:                  | ±20° (at 10 kHz)            |

#### FM (CH3/CH4)

|                     |                                  |
|---------------------|----------------------------------|
| Frequency Response: | 20 Hz~20 kHz, +1.0/-2.0 dB       |
| Dynamic Range:      | More than 80 dB                  |
| Distortion:         | Less than 0.5% at 1 kHz standard |
| Cross Talk:         | Less than -65 dB (1 kHz)         |

### 1-2. Tape Format

In order to achieve the above-mentioned targets (recording time, frequency response, S/N ratio), we have established the format and its dimensions by total evaluation of the following items:

- 1) Tape length - tape thickness and cassette size
- 2) Relative speed - drum diameter
- 3) Track width
- 4) FM carrier frequency & deviation
- 5) Tape CNR (carrier to noise ratio)  
(See next page).

Table 1(c) Specifications for AU-65/63/62 (PAL)

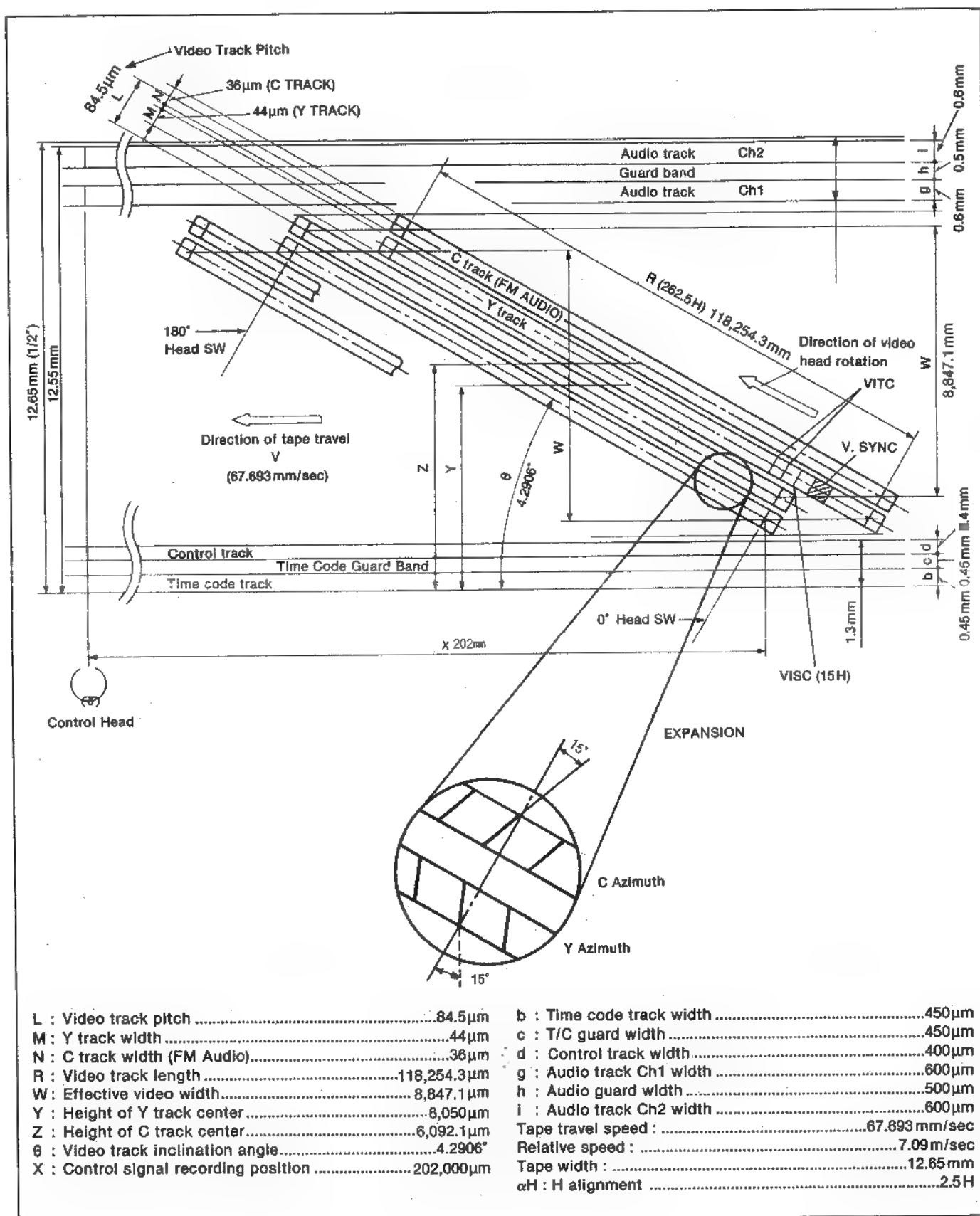


Fig. 2-1(a) MII VTR Tape Format (NTSC)

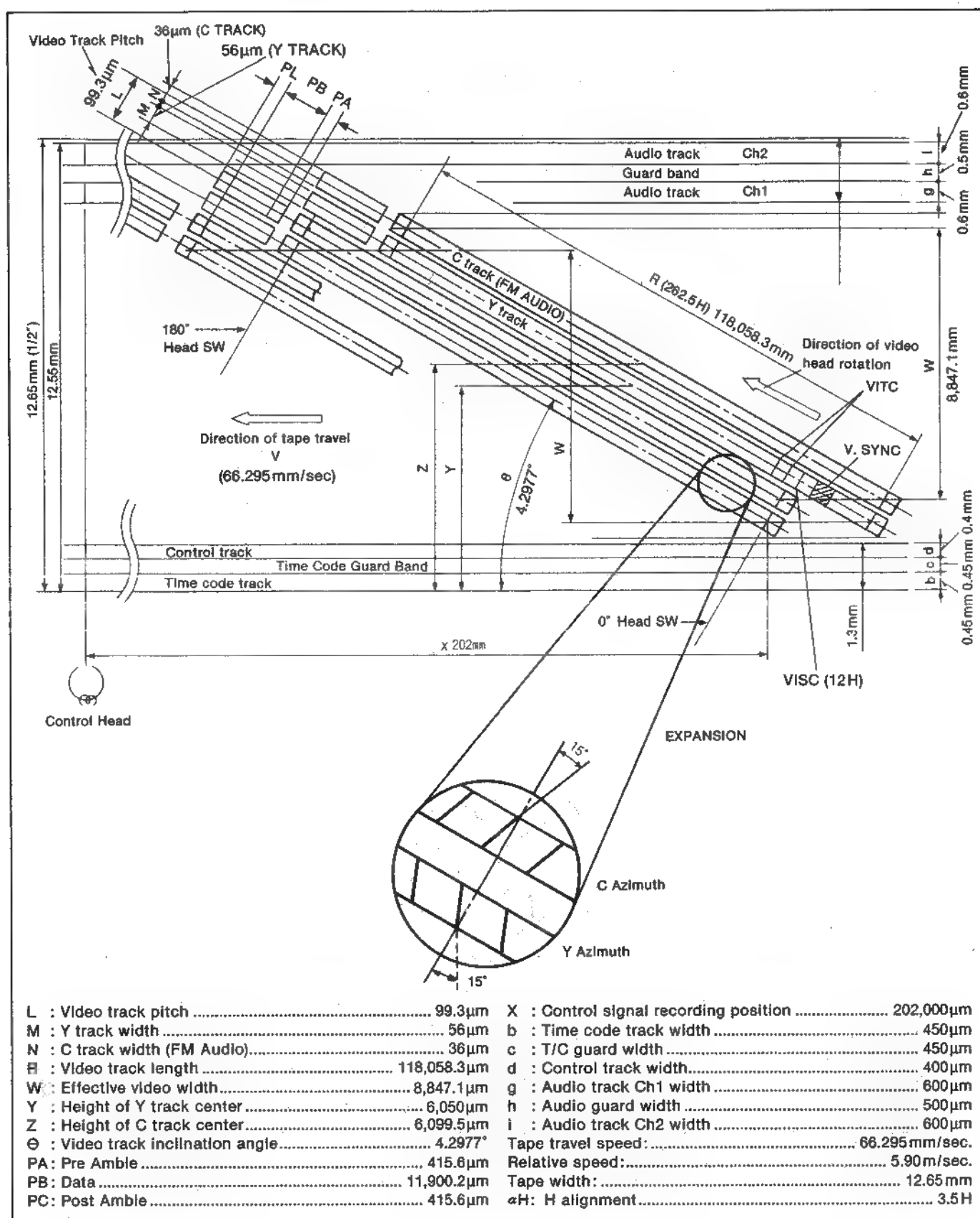


Fig. 2-1(b) MII VTR Tape Format (PAL)



## 2. CASSETTE TAPE AND HEADS

### 2-1. Cassette

For the determination of cassette size, we took into account the points of recording length and good maneuverability. We decided to employ a size near equivalent to the VHS cassette.

### 2-2. Employment of metal particle tape, and amorphous heads

To fulfill the requirements of high picture quality as well as 90 minute running time, and ■ near equivalent to the VHS cassette it was essential to raise the carrier-to-noise signal (CNR) of the tape. In this respect, we employed metal particle tape (13.5  $\mu$ m thick) that has excellent high frequency characteristics (output characteristics, CNR) and is able to ensure sufficient output for longitudinal track recording (audio, control, time code).

To use metal particle tape, we needed to employ amorphous heads as video heads to improve the playback signal to noise ratio. In this way, excellent characteristics were obtained in recording and playback. Using the new tape and heads, greater reliability characteristics are obtained such as drop-out resistance and endurance.

## 3. TAPE TRANSPORT SYSTEM

Figure 3-1 shows the tape transport system of the M II Format VTR. In order to assure stable travel of the thin metal particle tape at ■ speed ranging from 0 (still) - to x(+32), the angle at which tape is wrapped around inclined fixed posts is minimized. All other guide posts are the rotating type, thereby reducing tape traveling load. Closed tension servo is applied to both supply and take-up reels to accurately control the tape tension and to prevent the tape from being damaged.

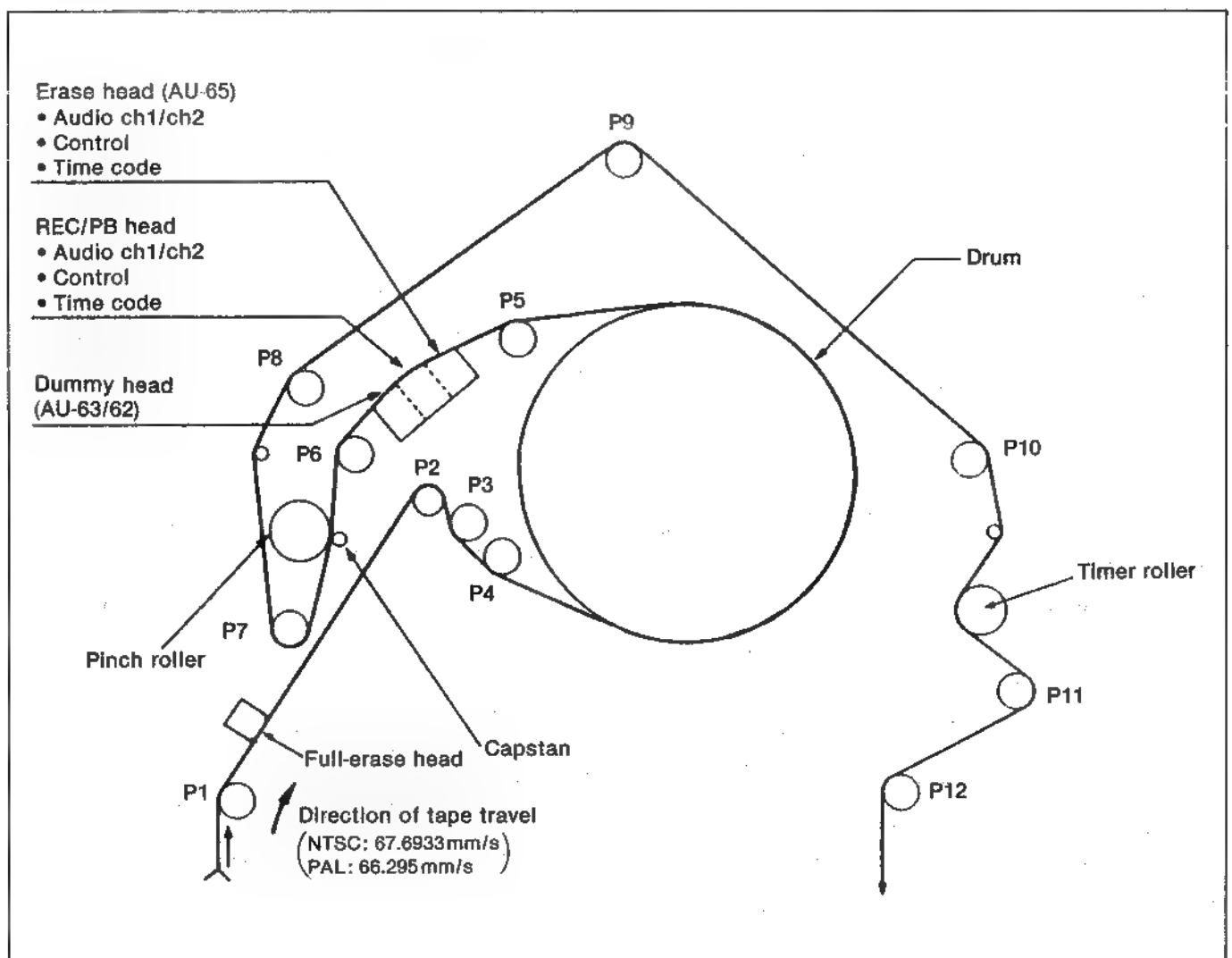


Fig. 3-1 Tape Transport System and Head Arrangement

## 4. RECORDING & PLAYBACK METHOD

### 4-1. Video signal process

MII system employs component recording method which has two separate Y and C tracks on the tape for video signal recording.

When making the recording, the incoming composite video signal is first separated by Decoder circuit into Y, Pb and Pr.

These Pb and Pr signals (each horizontal line) are then compressed by CTCM (Chroma Time Compressed Multiplex) circuit into one horizontal line called CTCM signal and it is supplied to FM modulator.

Where as the Y signal is immediately supplied to FM modulator.

The both Y and CTCM signals are separately modulated with FM and recorded at peculiar Y and C tracks on the tape.

During playback mode, the playback RF Y and C signals are demodulated by FM and these are supplied to TBC (Time Base Corrector) circuit.

The TBC carries out the jitter reduction and expansion of CTCM signal to original Pb, Pr signals.

After TBC correction, Y and C signals are encoded into output signal as shown in Figure 4-1.

(Note that the FM audio signal is modulated by FM with the CTCM signal.)

### 4-2. Time axis compressing and expansion process

For a system in which the time axis used for color difference signals is compressed during recording and is expanded during playback, a highly accurate time base corrector (TBC) is required because the residual jitter increases during expansion. In M II Format, a pilot burst signal for jitter correction is superimposed and recorded during the period of horizontal blanking, and a stable writing clock for the TBC is reproduced in the playback process by the use of horizontal synchronizing and pilot burst signals superimposed and recorded, thereby reducing the residual jitter.

The Y signal is recorded with a pilot burst signal synchronized to the horizontal sync signal and added to its horizontal blanking (back porch). A horizontal sync signal and pilot burst signal are added to the horizontal blanking of the Pb signal. Both signals are separately compressed in time axis and are recorded as a time division multiplex signal.

Time base errors in the playback signal can be removed by using the horizontal synchronizing and pilot burst signals for Y/C timing, solving the problem of timing errors which has been the weak point in the time axis compression recording system. The recording signal waveform of M II format is shown in figure 4-2 (a) or (b).

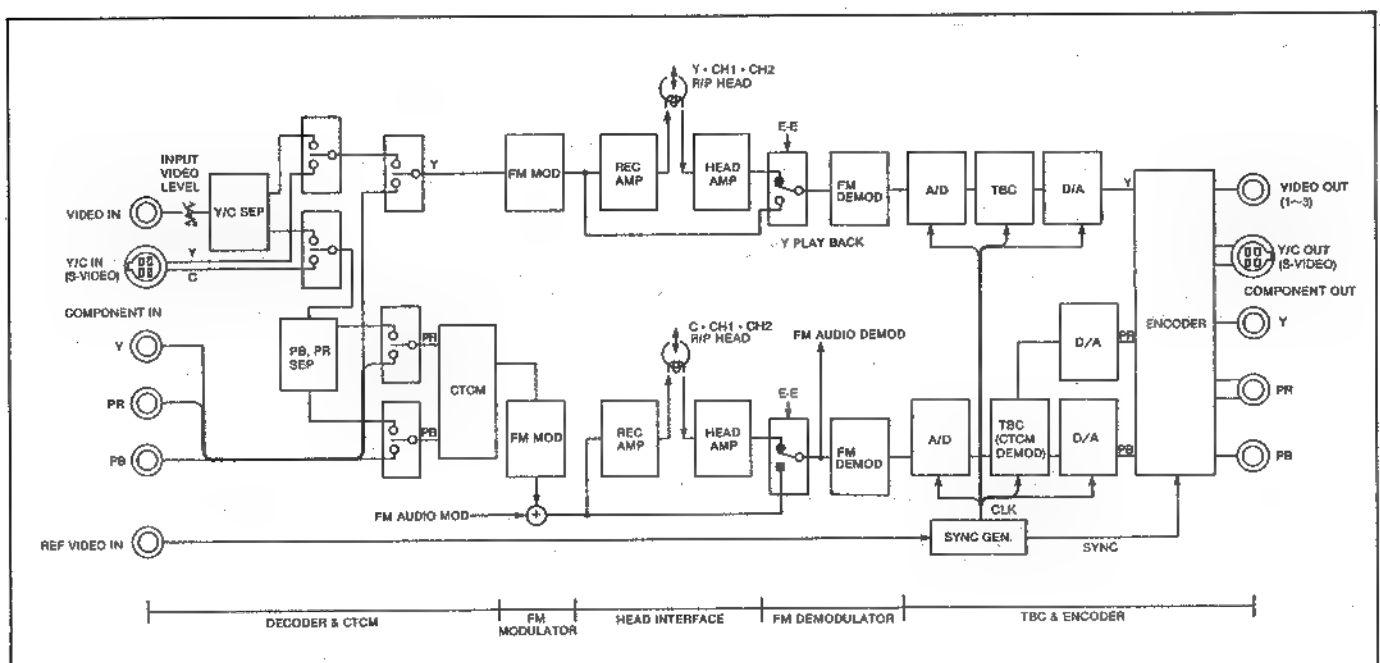


Fig. 4-1 Block Diagram of Video Signal Process

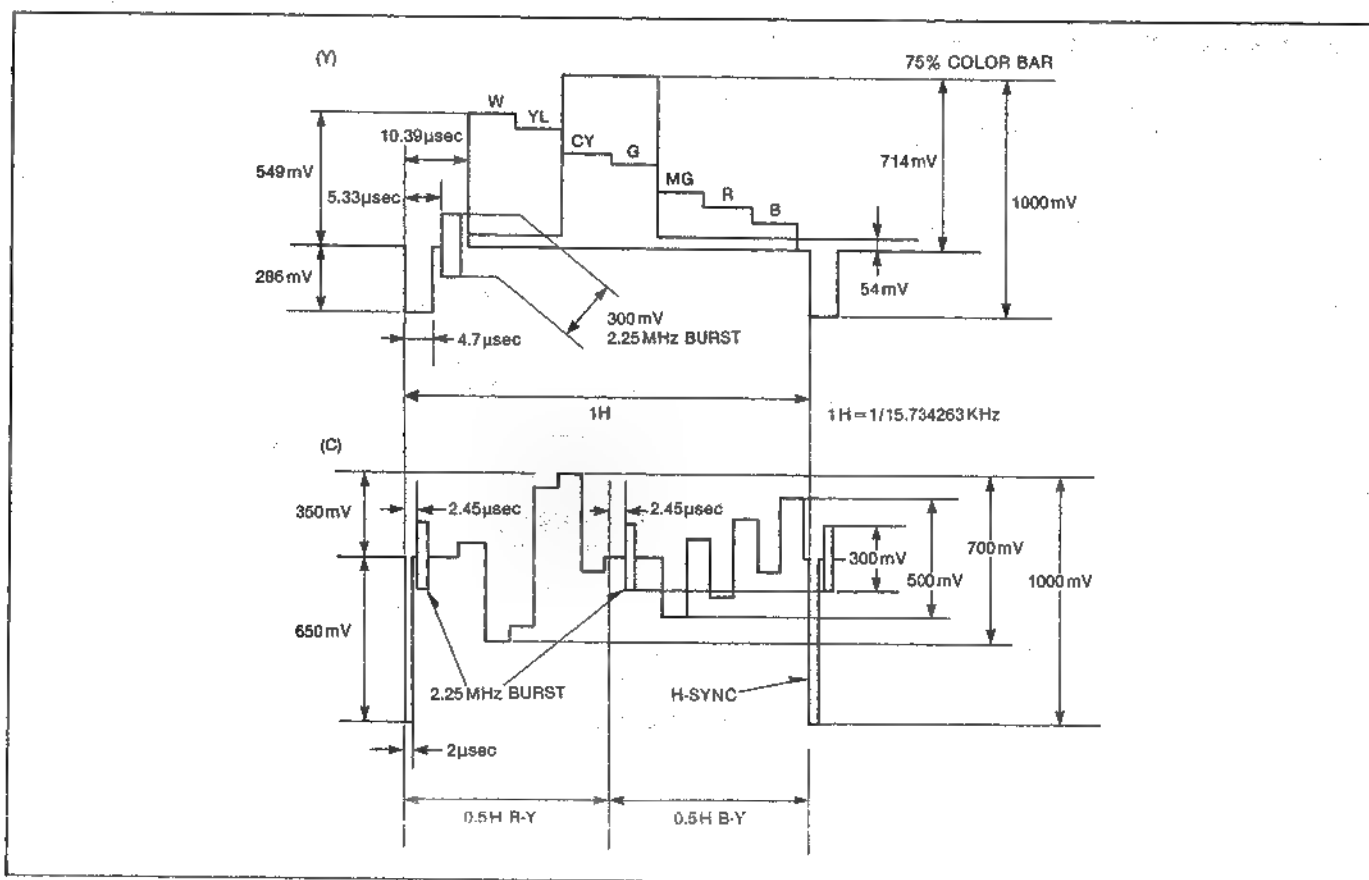


Fig. 4-2(a) Waveform of CTCM Signal (NTSC)

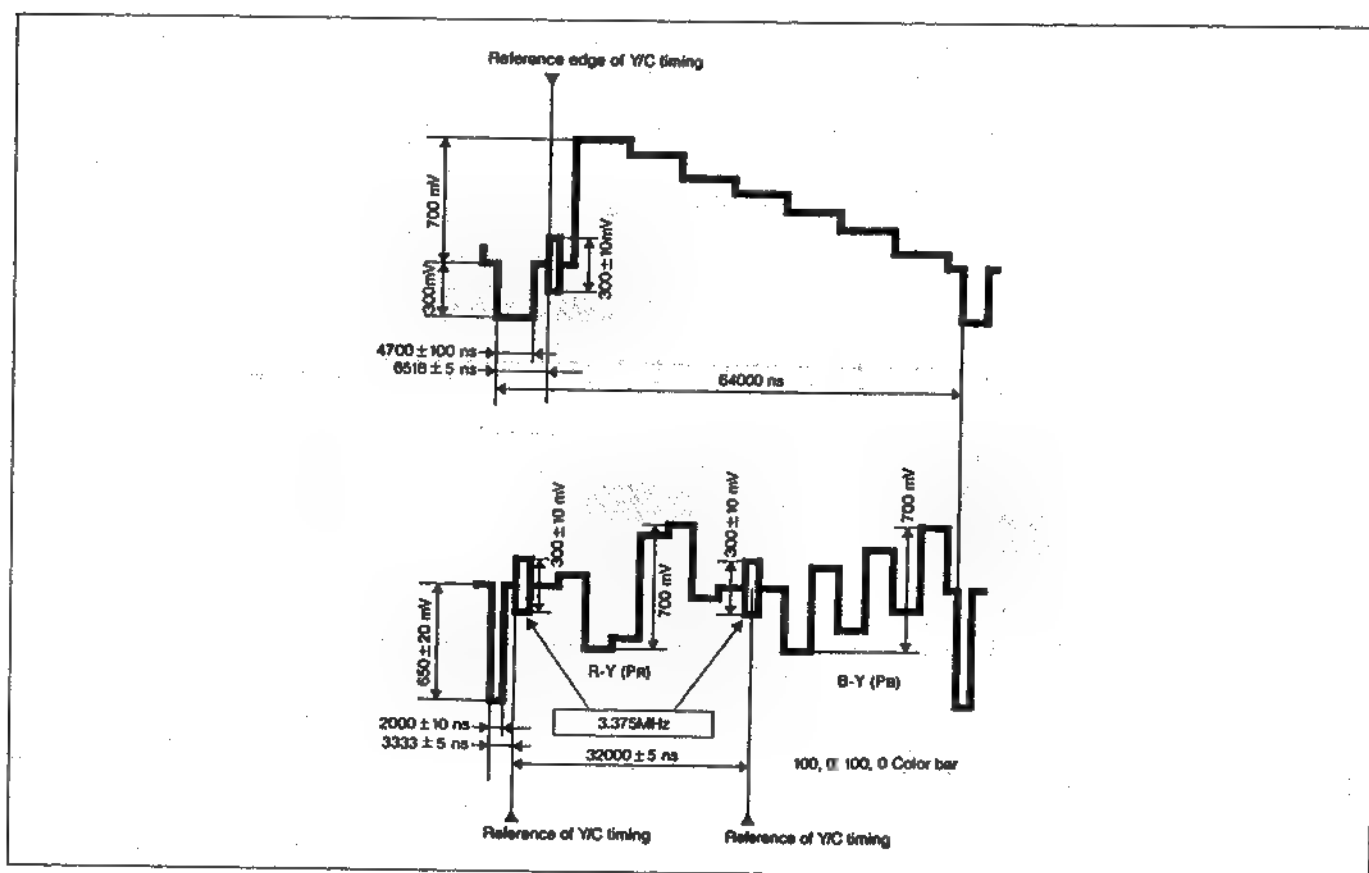


Fig. 4-2(b) Waveform of CTCM Signal (PAL)

### 4-3. Frequency Allocations

The luminance and compressed CTCM chrominance signal are separately modulated by FM signals as shown in Figure 4-3 (a) or (b) and they are recorded on the tape.

The FM audio signal is also modulated by FM with CTCM chrominance signal as shown in Figure 4-3 (a) or (b).

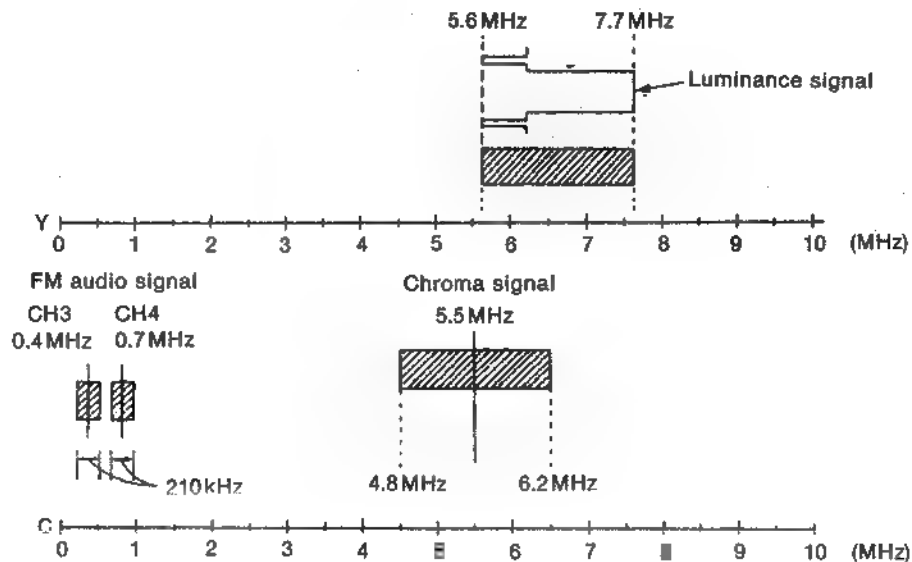


Fig. 4-3(a) Frequency Allocation (NTSC)

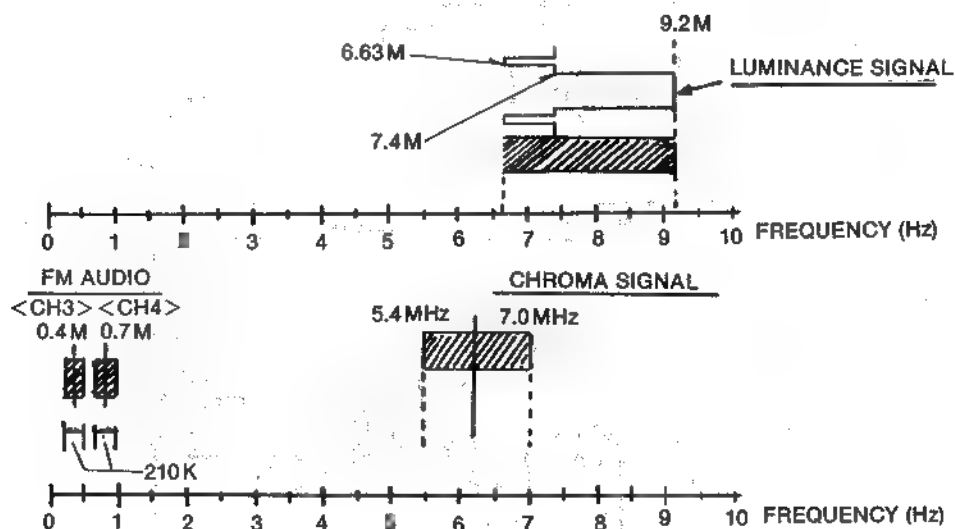


Fig. 4-3(b) Frequency Allocation (PAL)

#### 4-4. Time base corrector (TBC)

Figure 4-4 is the block diagram of the TBC. The TBC consists of A/D, memory, W-PLL, D-A, encoder and SYNC GEN circuit.

- 1) AU-65, AU-63 and AU-62 (NTSC & PAL)  
The TBC has  $\pm 16H$  window. AU-63's TBC is able to output noiseless slow motion since AU-63 has had a auto tracking playback head at speeds of  $x(-1)$  to  $x(+2)$ . In the A/D block, analog Y and CTCM signals are converted to 8 bit digital signals and are supplied to the memory block.
- 2) AU-665 (NTSC)  
The TBC has a field memory and is able to output noiseless slow motion since auto tracking playback head at speeds of  $x(-1)$  to  $x(+2)$ . The filed memory takes effective many line's drop out compensation. In addition, when the VISC signal is added to the video signal, the phase of the TBC clock is controlled to match the encoder's sub carrier to the VISC signal. In the A/D block, analog Y signal is converted 9 bit digital signal and CTCM signal is converted 8 bit digital signal.

The memory block performs video signal processing such as timing adjustments, jitter correction, drop-out correction, interpolation, and averaging. Regarding chrominance signals in particular, level differences are often generated line by line due to clamping errors in time axis compression or level alteration during recording. This may cause line crawling, subcarrier leak or vertical stripe beats in the pictures reproduced. To prevent these problems, it is necessary to perform line averaging of playback Pr and Pb signals. At the same time, field reproduction takes place during auto tracking playback, and line interpolation is performed. Line averaging can be user selected.

In the D/A-ENCODER block, the time axis corrected and expanded PCM signal converted to analog. The color difference signal is subjected to balanced modulation. The Y signal, modulated color signal, and synchronizing signal are added, and this signal is output as a composite video signal.

The W-PLL block performance determines the accuracy concerning residual jitter, vertical sync, and Y/C timing delays between Y, Pb, Pr.

The write clock is generated in one of two ways depending on the presence or absence of azimuth skew error. Without azimuth skew, the write clock is synchronized with playback Y. Y and C are timed to each other via APC and AFC loops to a 54MHz master clock and added H and pilot burst signals. For the C signal, a burst is added to the Pb and Pr components before time compression for accurate reconstruction during playback.

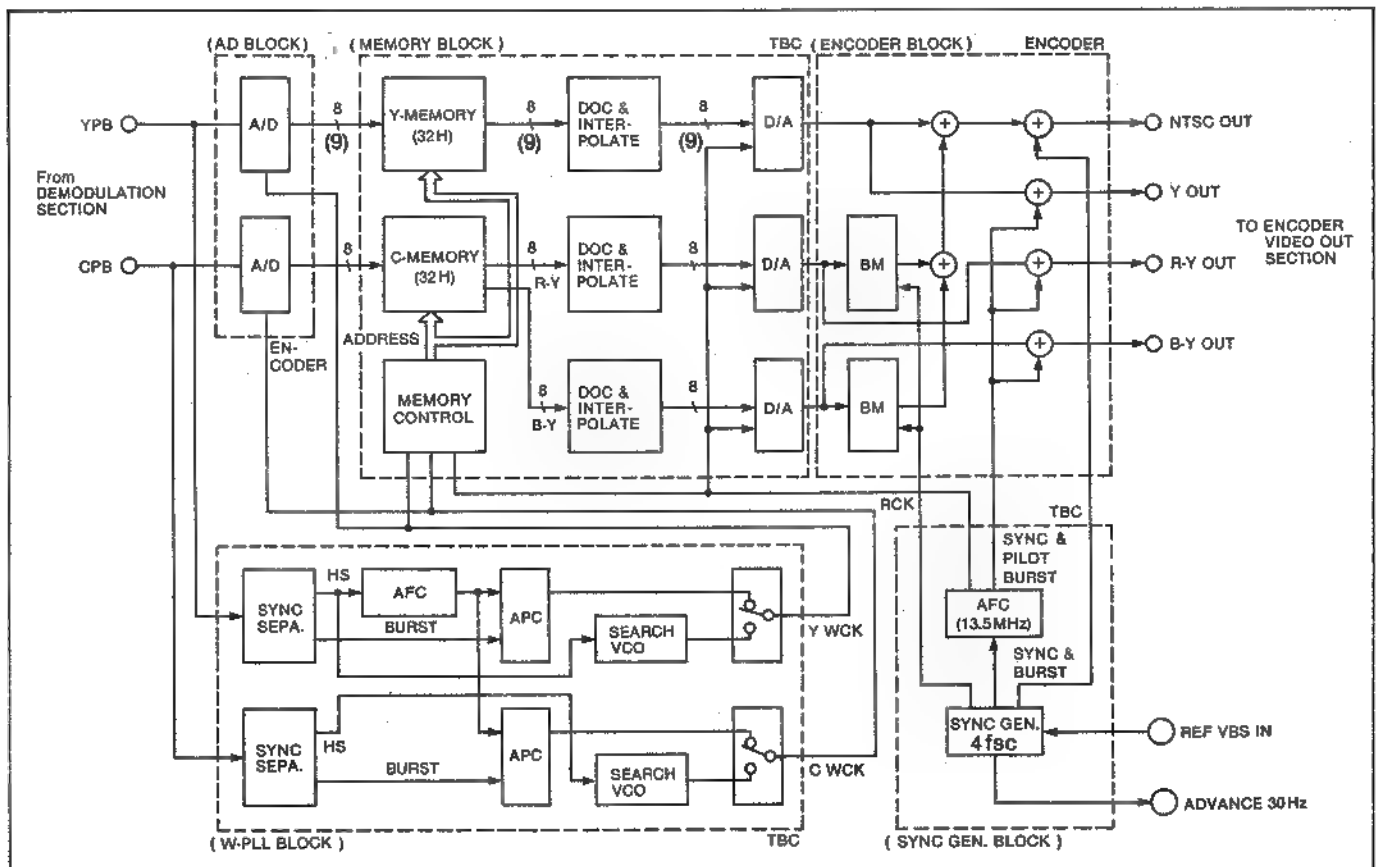


Fig. 4-4 TBC

When azimuth skew exists, the write clock is re-generated by the search VCO and instantaneously phase-locked with each horizontal synchronizing pulse of the Y and C signals.

In addition, this block performs vertical synchronizing and interpolation during auto tracking playback.

In the SYNC GENE block, with an external reference video signal applied, the TBC read clock is synchronized with this reference. Various synchronizing signals, and servo standard 30 Hz signals corresponding to the changeover of R/P and PLAY heads and of REC/PLAYBACK modes are produced.

## 5. EDITING SYSTEM

The M II Format VTR has been developed as a broadcast VTR with various editing functions, such as video/audio signal insert editing, assemble editing, audio split editing, preview, and review.

Automatic editing can also be performed by an editing system consisting of a player, a recorder and an editing controller (AU-A65 and AG-A800). The control unit is furnished with 9-pin serial interface (RS-422 standard. And SMPTE protocol) and 50-pin parallel interface connectors can be available as a option (AU-MK25). This MII VTR series is equipped with a high-precision CTL reading circuit. When playing or editing with high-speed search, slow, hog/shuttle, etc., however the system still needs the SMPTE Time Code for highly accurate editing. For this purpose, the Time Code generator/reader (AU-F65) is optionally available. The AU-F65 is essential to give sophisticated editing tasks.

# MAINTENANCE & MECHANICAL ADJUSTMENTS

This section covers the disassembly method, maintenance procedures, and mechanical adjustment procedures.

## REGULAR MAINTENANCE

The MII-VTR is a complex piece of equipment. It contains many posts, rollers and heads etc. Which may wear with pro-longed use. Dust and dirt will also affect the operation of the machine. It is very important that regular preventive maintenance (PM) is carried out according to the maintenance chart. This will ensure reliability, and the machine's specification.

Preventive maintenance should also be performed after any repairs are carried out on the equipment.

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## REGULAR MAINTENANCE

### REGULAR MAINTENANCE

The purpose of periodic maintenance is to preserve the reliability of this machine throughout its useful life. The user or service dealer should perform these maintenance procedure regularly to ensure that maximum performance is obtained from the machine.

### REGULAR MAINTENANCE IS NECESSARY

The VCR is a complicated piece of equipment. It contains many rollers, heads etc., which become worn as time goes by, causing trouble. Dust and dirt will also impede the proper functioning of the machine. In light of this, it is very important that overall maintenance be done

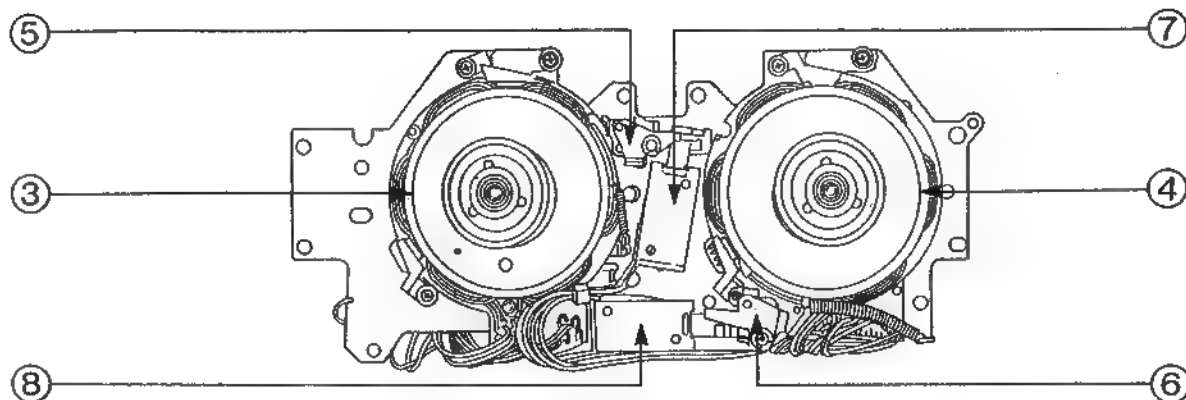
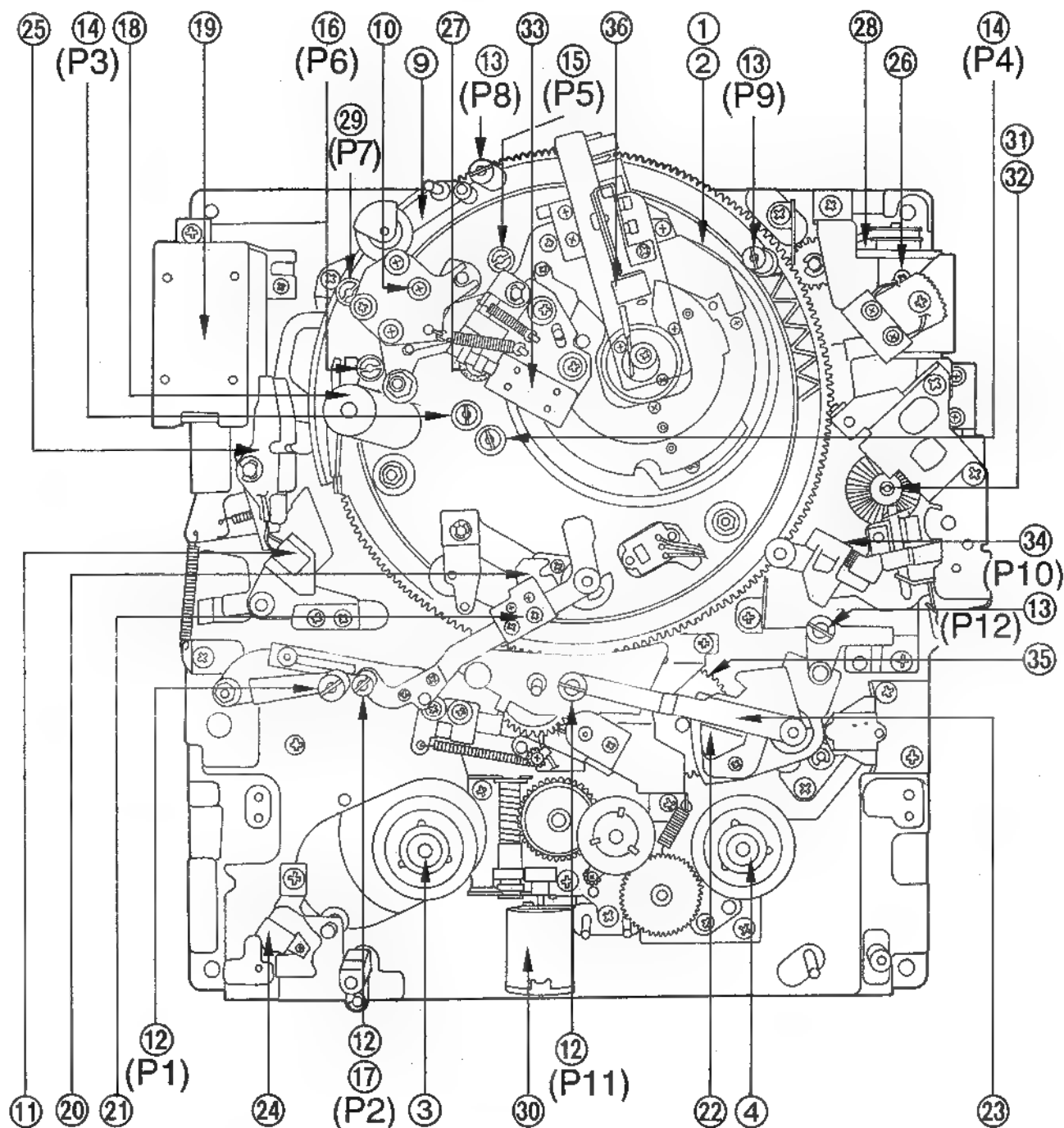
according to the maintenance chart to maintain the functions of the VCR, and to avoid accidental problems. This maintenance should also be performed after any repairs are done on the equipment.

### REGULAR MAINTENANCE IS RECOMMENDED

The VCR used for broadcast and professional applications requires particular attention for several reasons. The installation conditions and applications are not always the best. Long use times, or poor environmental conditions may adversely affect the lifespan and performance of the machine. Regular maintenance assures that the purchaser obtains the maximum value for this expenditure.



# MAINTENANCE PARTS LOCATION



# MAINTENANCE CHART

<AU-65/63/62/665>

⊙:for M.A.R.C (CART) ●:Replacement ☆:Conf. or Adj. ※:Grease Up ○:Cleaning

| Part Name                                       | Part No.            | Pcs/Unit | Location No. | Using Hours                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|---|---------------------|----------|--------------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|   |                     |          |              | 1<br>5<br>0<br>0                        | 3<br>0<br>0<br>0 | 4<br>5<br>0<br>0 | 6<br>0<br>0<br>0 | 7<br>5<br>0<br>0 | 9<br>0<br>0<br>0 | 1<br>0<br>5<br>0 | 1<br>2<br>0<br>0 | 1<br>5<br>0<br>0 | 2<br>4<br>0<br>0 |
| Upper Drum (AU-65/62 NTSC)                      | VEH0475             | 1        | 1            | Refer to Head Tip Measurement Procedure |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Upper Drum (AU-63 NTSC)                         | VEH0482             | 1        | 1            |   |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Upper Drum (AU-665 NTSC)                        | VEH0375             | 1        | 1            |   |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Upper Drum (AU-65/62 PAL)                       | VEH0494             | 1        | 1            |   |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Upper Drum (AU-63 PAL)                          | VEH0495             | 1        | 1            |   |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Drum Unit (AU-65 NTSC) with Brush Unit          | VEG0780             | 1        | 2            |   |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Drum Unit (AU-62 NTSC) with Brush Unit          | VEG0804             | 1        | 2            |   |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Drum Unit (AU-63 NTSC) with Brush Unit          | VEG0806             | 1        | 2            |   |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Drum Unit (AU-665 NTSC) with Brush Unit         | VEG0805             | 1        | 2            |   |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Drum Unit (AU-65 PAL) with Brush Unit           | VEG0837             | 1        | 2            |   |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Drum Unit (AU-62 PAL) with Brush Unit           | VEG0838             | 1        | 2            |   |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Drum Unit (AU-63 PAL) with Brush Unit           | VEG0839             | 1        | 2            |   |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| S-Reel Stand Unit                               | VXR0191             | 1        | 3            |   |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| T-Reel Stand Unit                               | VXR0191             | 1        | 4            |   |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| Supply Brake Unit                               | VXA4004             | 1        | 5            |   |                  |                  | ○                |                  |                  |                  | ●                |                  | ●                |
| Take up Brake Unit                              | VXA4005             | 1        | 6            |   |                  |                  | ○                |                  |                  |                  | ●                |                  | ●                |
| Supply Brake Solenoid                           | VSJ0097             | 1        | 7            |   |                  |                  | ○                |                  |                  |                  | ●                |                  | ●                |
| Take up Brake Solenoid                          | VSJ0098             | 1        | 8            |   |                  |                  | ○                |                  |                  |                  | ●                |                  | ●                |
| Pinch Arm Unit                                  | VXL1288             | 1        | 9            | ●                                       | ●                | ●                | ●                | ●                | ●                | ●                | ●                | ●                | ●                |
| A/C Head Unit (AU-65 NTSC, PAL)                 | VED0140             | 1        | 10           |   |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| A/C Head Unit (AU-63/62 NTSC, PAL)              | VED0142             | 1        | 10           |   |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| A/C Head Unit (AU-665 NTSC)                     | VED0143             | 1        | 10           |   |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| Full Erase Head (AU-65 NTSC, PAL / AU-665 NTSC) | VBS0024             | 1        | 11           |   |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| Full Erase Head (AU-62/63 NTSC PAL)             | VBS0043             | 1        | 11           |   |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| Post Roller with Bearing                        | P1, P2, P11 VXP0820 | 3        | 12           |   |                  |                  |                  |                  |                  |                  | ●                |                  | ●                |
|   | P8, P9, P12 VXP0821 | 3        | 13           |   |                  |                  |                  |                  |                  |                  | ●                |                  | ●                |
|   | P3, P4 VXP0823      | 2        | 14           |   |                  |                  |                  |                  |                  |                  | ●                |                  | ●                |
|   | P5 VXP0824          | 1        | 15           |   |                  |                  |                  |                  |                  |                  | ●                |                  | ●                |
|   | P6 VXP0819          | 1        | 16           |   |                  |                  |                  |                  |                  |                  | ●                |                  | ●                |
| P2 Upper Flange                                 | VMS4572             | 1        | 17           |   |                  |                  |                  |                  |                  |                  | ●                |                  | ●                |
| Capstan Housing Unit                            | VXD0110             | 1        | 18           |   |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| Pinch Solenoid                                  | VSJ0069             | 1        | 19           |   |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| S-Stopper Pin Base Unit                         | VXA2302             | 1        | 20           |   | ●                |                  | ●                |                  | ●                |                  | ●                | ●                | ●                |
| S-Tension Spring Plate                          | VMC0119             | 1        | 21           |   | ●                |                  | ●                |                  | ●                |                  | ●                | ●                | ●                |
| T-Stopper Pin Base Unit                         | VXA4013             | 1        | 22           |   | ●                |                  | ●                |                  | ●                |                  | ●                | ●                | ●                |
| T-Tension Arm Unit                              | VXL1991             | 1        | 23           |   | ●                |                  | ●                |                  | ●                |                  | ●                | ●                | ●                |
| Recording Inhibit Microswitch                   | EVQWUS002           | 1        | 24           |   | ○                |                  | ●                |                  | ○                |                  | ●                | ○                | ●                |
| Pinch Press Lever Unit                          | VXL1679             | 1        | 25           |   | ○                |                  | ●                |                  | ○                |                  | ●                | ○                | ●                |
| Leaf Switch (for small cassette)                | VSH0026             | 2        | ----         |   |                  |                  | ○                |                  |                  |                  | ●                |                  | ●                |
| Leaf Switch (for front loading)                 | VSH0026             | 1        | ----         |   | ○                |                  | ●                |                  | ○                |                  | ●                | ○                | ●                |
| Loading Motor                                   | VRD0030             | 1        | 26           |   |                  |                  | ○                |                  |                  |                  | ●                |                  | ●                |
| Front Loading Motor                             | VEM0228             | 1        | ----         |   |                  |                  | ○                |                  |                  |                  | ●                |                  | ●                |
| Cleaner Roller                                  | VMT0321             | 1        | 27           | ●                                       | ●                | ●                | ●                | ●                | ●                | ●                | ●                | ●                | ●                |
| Sub Loading Switch                              | VSM0042             | 1        | ----         |   |                  |                  |                  |                  |                  |                  | ○                |                  | ●                |
| Cassette Up Down Switch                         | VSM0048             | 2        | ----         |   | ○                |                  | ●                |                  | ○                |                  | ●                | ○                | ●                |
| Loading Motor Belt                              | VDV0156             | 1        | 28           | ●                                       | ●                | ●                | ●                | ●                | ●                | ●                | ●                | ●                | ●                |
| Front Loading Motor Belt                        | VDV0157             | 1        | ----         | ●                                       | ●                | ●                | ●                | ●                | ●                | ●                | ●                | ●                | ●                |
| Turn Roller Arm Unit (with P7 Post)             | VXL1754             | 1        | 29           |   |                  |                  | ○                |                  |                  |                  | ●                |                  | ●                |
| Small Cassette Motor                            | VEM0264             | 1        | 30           |   |                  |                  |                  |                  |                  |                  | ○                |                  | ●                |

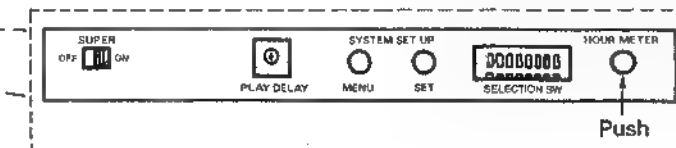
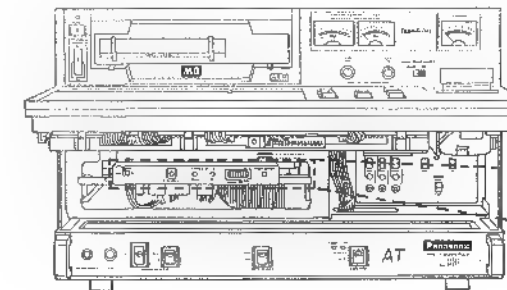
<AU-65/63/62/665>

⊙:for M.A.R.C (CART) ●:Replacement ☆:Conf. or Adj. ※:Grease Up ○:Cleaning

| Part Name                    | Part No.  | Pcs/Unit | Location No. | Using Hours      |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|------------------------------|-----------|----------|--------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                              |           |          |              | 1<br>5<br>0<br>0 | 3<br>0<br>0<br>0 | 4<br>5<br>0<br>0 | 6<br>0<br>0<br>0 | 7<br>5<br>0<br>0 | 9<br>0<br>0<br>0 | 1<br>0<br>5<br>0 | 1<br>2<br>0<br>0 | 1<br>5<br>0<br>0 | 2<br>4<br>0<br>0 |
| Timer Roller Unit            | VXP1183   | 1        | 31           |                  |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| Timer Roller (Bearing)       | VDB0778   | 2        | 32           |                  |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| Fan Motor                    | VRF0061   | 1        | ----         |                  | ●                |                  | ●                |                  | ●                |                  | ●                | ●                | ●                |
| Eject Switch                 | VSP0221   | 1        | ----         |                  |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| Power Switch (NTSC)          | EST15372T | 1        | ----         |                  |                  |                  |                  |                  |                  |                  | ●                |                  | ●                |
| Power Switch (PAL)           | EST15367S | 1        | ----         |                  |                  |                  |                  |                  |                  |                  | ●                |                  | ●                |
| Cleaner Solenoid             | VSJ0096   | 1        | 33           |                  |                  |                  | ○                |                  |                  |                  | ●                |                  | ●                |
| IP Base Unit (with P10 Post) | VXR0131   | 1        | 34           |                  |                  |                  | ●                |                  |                  |                  | ●                |                  | ●                |
| Cam Gear                     | VDC0669   | 1        | 35           |                  |                  |                  | ○                |                  |                  |                  |                  | ●                |                  |
| Carriage Illumination Lamp   | VLL0019   | 3        | ----         | ●                | ●                | ●                | ●                | ●                | ●                | ●                | ●                | ●                | ●                |
| Gears                        | ----      | ----     | ----         |                  | ※                |                  | ※                |                  | ※                |                  | ※                | ※                | ※                |
| Ring Roller                  | ----      | ----     | ----         |                  |                  |                  | ○                |                  |                  |                  | ○                |                  | ○                |
| Brake Torque                 | ----      | ----     | ----         |                  |                  |                  | ☆                |                  |                  |                  | ☆                |                  | ☆                |
| Tape Tention                 | ----      | ----     | ----         |                  | ☆                |                  | ☆                |                  | ☆                |                  | ☆                | ☆                | ☆                |
| Brush Unit                   | ----      | ----     | 36           | ○                | ○                | ○                | ○                | ○                | ○                | ○                | ○                | ○                | ○                |

## MAINTENANCE HOURS

When you want to know the replacement time, the HOUR METER function is used.



When this button is pushed, the accumulated "total power-on" time and "total drum rotation" time are displayed in 10 hours units as shown below.

## SUPER INPOSE

### HOUR METER

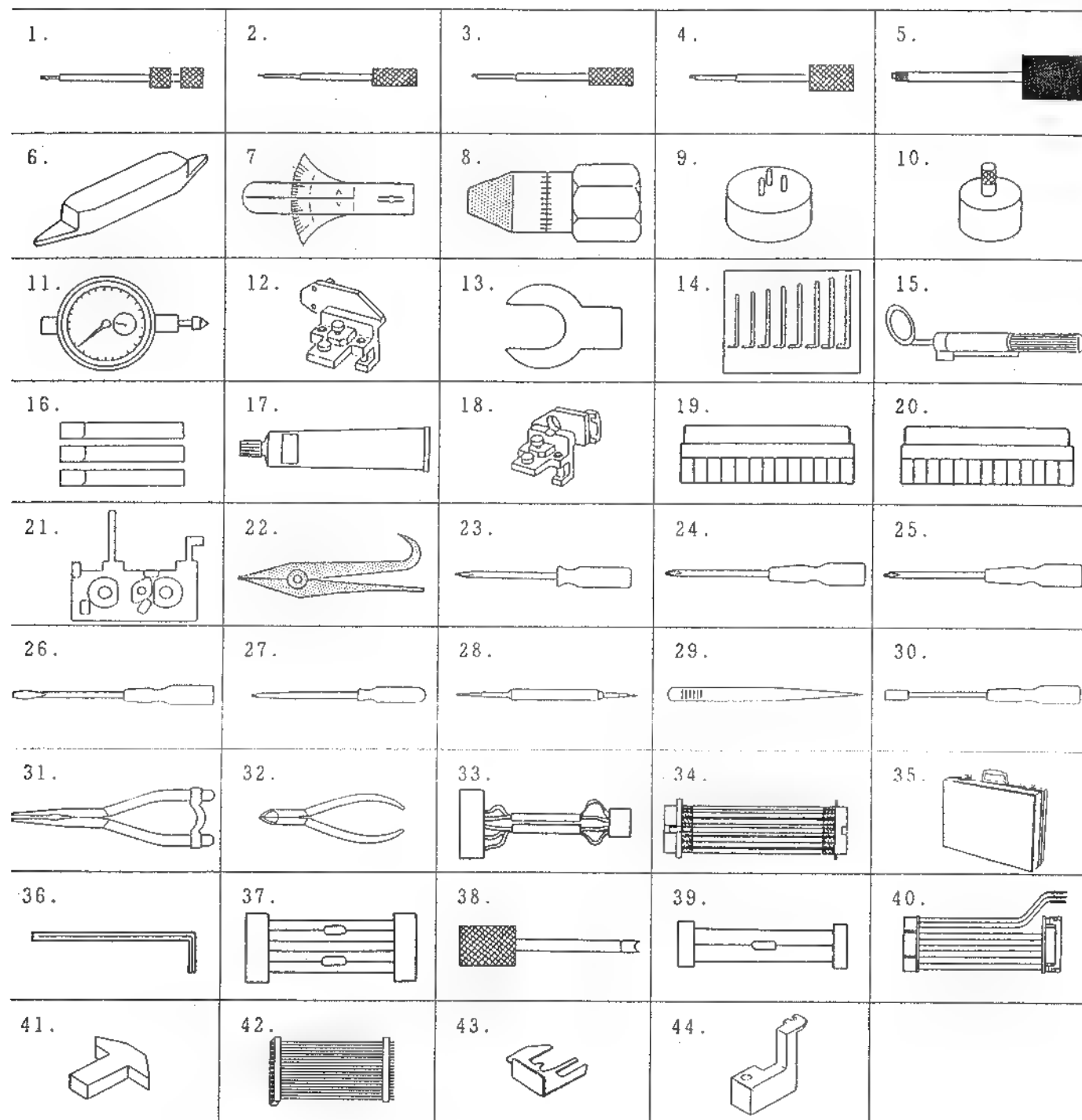
POWER ON 00350 HOURS

DRUM ON 00170 HOURS

## FRONT PANEL

LTOR 00 : 00 : 00 00 P00350H D00170H  
EJECT

Servicing Fixtures & Tools for Model AU-665/65/63/62 Tool Kit No. VFK0356C

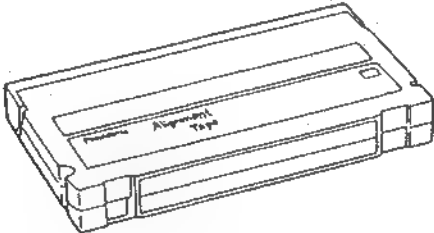
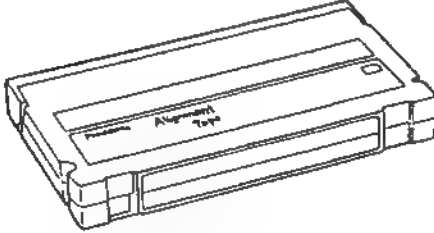
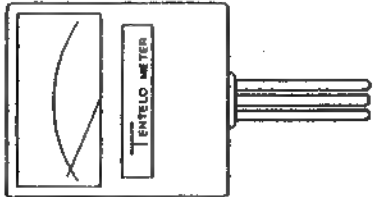
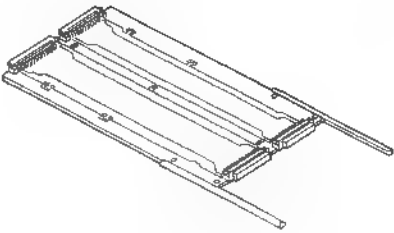



CONTENTS OF MII TOOL KIT

| Ref. No. | Part No. | Q'tty | Tool Name            | AU-665 | AU-65/63/62 | AU-410/410S | AU-520/520S |
|----------|----------|-------|----------------------|--------|-------------|-------------|-------------|
| 1        | VFK0293  | 1     | Post Driver          | v      | v           | v           | v           |
| 2        | VFK0357  | 1     | Eccentric Driver (1) | v      | v           | v           | v           |
| 3        | VFK0358  | 1     | Eccentric Driver (2) | v      | v           |             | v           |
| 4        | VFK0359  | 1     | Eccentric Driver (3) | v      | v           |             |             |
| 5        | VFK0446  | 1     | Fine Adj. Driver     | v      | v           | v           | v           |
| 6        | VFK0363  | 1     | Post Height Fixture  | v      | v           |             |             |

| Ref. No. | Part No. | Q'tty | Tool Name                                   | AU-665 | AU-65/63/62 | AU-410/410S | AU-520/520S |
|----------|----------|-------|---|--------|-------------|-------------|-------------|
| 7        | VFK66    | 1     | Tension Gauge                               | v      | v           |             |             |
| 8        | VFK0133  | 1     | Dial Torque Gauge                           | v      | v           | v           | v           |
| 9        | VFK0134  | 1     | Adaptor for VFK0133                         | v      | v           | v           | v           |
| 10       | VFK0354  | 1     | Adaptor for VFK0133                         |        |             | v           | v           |
| 11       | VFK0325  | 1     | Dial Gauge                                  | v      | v           | v           | v           |
| 12       | VFK0287  | 1     | Head Adj. Plate                             | v      | v           |             |             |
| 13       | VFK0296  | 1     | RT Gap Spacer                               | v      | v           | v           | v           |
| 14       | VFK0326  | 1     | Hex Wrench Set                              | v      | v           | v           | v           |
| 15       | VFK0343  | 1     | Check Light                                 | v      | v           | v           | v           |
| 16       | VFK27    | 1     | Head Cleaning Stick                         | v      | v           | v           | v           |
| 17       | MOR265   | 1     | Morlyton Grease                             | v      | v           | v           | v           |
| 18       | VFK0353A | 1     | Head Adj. Plate                             |        |             | v           |             |
| 19       | VFK0361  | 1     | Dummy Plug (1)<br>Large Cassette Simulation | v      | v           |             |             |
| 20       | VFK0362  | 1     | Dummy Plug (2)<br>Small Cassette Simulation | v      | v           |             |             |
| 21       | VFK0352  | 1     | Mech Neutral Adj. Plate                     | v      | v           |             |             |
| 22       | VFK0335  | 1     | Retaining Remover                           | v      | v           | v           | v           |
| 23       | VFK0473  | 1     | Philips Driver (Magnet)                     | v      | v           | v           | v           |
| 24       | VFK0337  | 1     | Philips Driver (Large)                      | v      | v           | v           | v           |
| 25       | VFK0366  | 1     | Philips Driver (Small)                      | v      | v           | v           | v           |
| 26       | VFK0367  | 1     | Screw Driver                                | v      | v           | v           | v           |
| 27       | VFK0338  | 1     | Trimmer Adj. Driver                         | v      | v           | v           | v           |
| 28       | VFK0368  | 1     | Core Adj. Driver                            | v      | v           | v           | v           |
| 29       | VFK0369  | 1     | Tweezers                                    | v      | v           | v           | v           |
| 30       | VFK0370  | 1     | Nut Driver (5.5m/m)                         | v      | v           |             |             |
| 31       | VFK0371  | 1     | Radio Prier                                 | v      | v           | v           | v           |
| 32       | VFK0372  | 1     | Cutter Prier                                | v      | v           | v           | v           |
| 33       | VFK0364  | 1     | A/C Head Adj. Connector                     |        |             | v           |             |
| 34       | VFK0533  | 1     | Extension Cable                             |        |             |             |             |
| 35       | VFK0355A | 1     | Tool Box Case                               | v      | v           | v           | v           |
| 36       | VFK0410  | 1     | Hex Wrench                                  |        |             | v           | v           |
| 37       | VFK0386  | 1     | A/R Bias Cur. Connector                     |        |             |             | v           |
| 38       | VFK0329  | 1     | Post Driver                                 |        |             | v           | v           |
| 39       | VFK0411  | 1     | LTC REC Cur. Connector                      |        |             | v           | v           |
| 40       | VFK0425  | 1     | Syncro Connector                            |        |             |             | v           |
| 41       | VFK0438  | 1     | P2 Post Adj. Fixture                        | v      | v           |             |             |
| 42       | VFK0470  | 1     | Extension Cable Set                         | v      | v           | v           | v           |
| 43       | VFK0444  | 1     | A/C Head Adj. Plate                         |        |             |             |             |
| 44       | VFK0599  | 1     | Pinch Jig A                                 |        |             | v           | v           |

## OPTIONAL TOOL

|  |   |  |
|--|---|--|
| <p>1. VFM7087EAG (NTSC)<br/>Alignment Tape</p>  | <p>2. VFM7180EG (PAL)<br/>Alignment Tape</p>  | <p>3. VFM0132<br/>Back Tension Meter</p>  |
| <p>4. VFK0601<br/>B Extension Board</p>        | <p>5. VFK0676<br/>Nut Driver (7mm)</p>         |  |

| Ref.<br>No. | Part No.   | Q'tty | Tool Name             | AU-665 | AU-65/<br>63/62 | AU-410<br>/410S | AU-520<br>/520S |
|-------------|------------|-------|-----------------------|--------|-----------------|-----------------|-----------------|
| 1           | VFM7087EAG | 1     | Alignment Tape (NTSC) | v      | v               |                 | v               |
| 2           | VFM7180EG  | 1     | Alignment Tape (PAL)  | v      | v               |                 | v               |
| 3           | VFK0132    | 1     | Back Tension Meter    | v      | v               | v               | v               |
| 4           | VFK0601    | 1     | B Extension Board     |        | v               |                 |                 |
| 5           | VFK0676    | 1     | Nut Driver (7mm)      | v      | v               |                 |                 |

PURPOSE OF MAINTENANCE TOOL  
for STUDIO VTR

| P a r t N o .    | P u r p o s e   |
|------------------|---|
| VFK0293          | Post Height Adjustment<br>Timer Roller Height Adjustment  |
| VFK0357          | Tape Tension Adjustment   |
| VFK0358          | A/C Head Horizontal Position Adjustment<br>Tape Tension Adjustment<br>Timer Roller Position Adjustment<br>Pinch Roller Solenoid Adjustment<br>PI Post Drive Rod Adjustment                |
| VFK0359          | Magnet Sensor Base Position Adjustment  |
| VFK0446          | Leaf Switch Adjustment<br>Loading Completion Detect Photo Sensor Position Adjustment<br>Unloading Completion Detect Photo Sensor Position Adjustment<br>Cassette Detect Sensor Adjustment |
| VFK0363          | Post Height Adjustment  |
| VFK66            | Pinch Roller Solenoid Adjustment  |
| VFK0133, VFK0134 | Brake Torque Confirmation   |
| VFK0325, VFK0287 | Upper Drum Adjustment   |
| VFK0296          | Slip Ring Clearance Adjustment  |
| VFK0326          | A/C Head Adjustment<br>Slip Ring Clearance Adjustment<br>P10 Post Adjustment  |
| VFK0343          | Tape Interchangeability Adjustment  |
| VFK27            | Video Head Tip Cleaning   |
| VFK0361          | Large Cassette Simulation   |
| VFK0362          | Small Cassette Simulation   |
| VFK0352          | Tape Interchangeability Adjustment<br>Tape Tension Adjustment   |
| VFK0132          | Tape Tension Adjustment   |

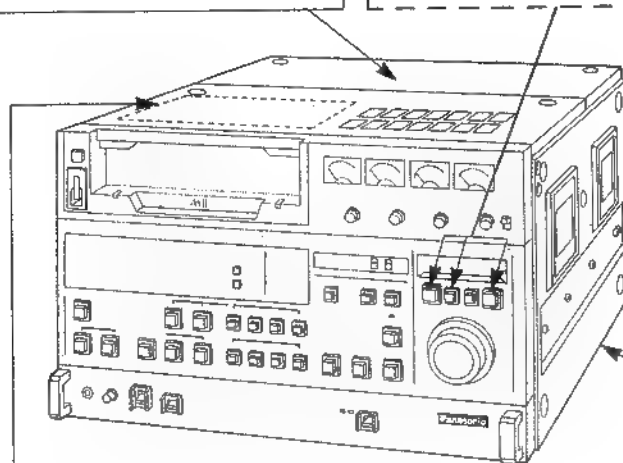
## 1. DISASSEMBLY METHOD

## HALF LOADING FOR A/C HEAD CLEANING

### TOP PANEL

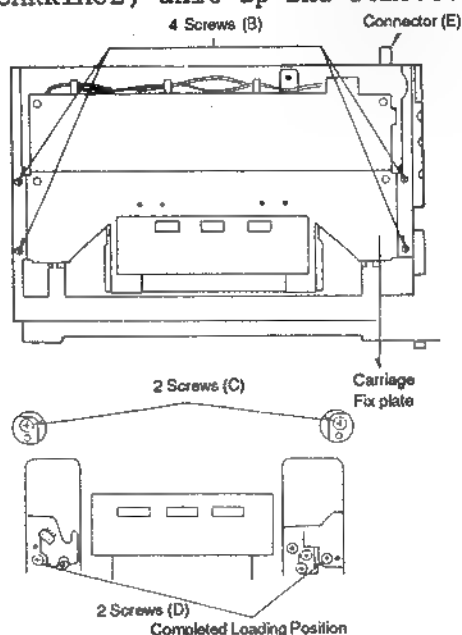
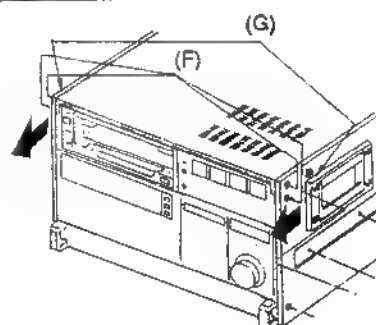
1. Remove power cord from unit before disassembly.
2. Remove the 4 screws and remove the top panels.

To clean the A/C Head (move pinch assy a side), press the JOG or SHTL buttons. To return to unload position, press the EJECT button.



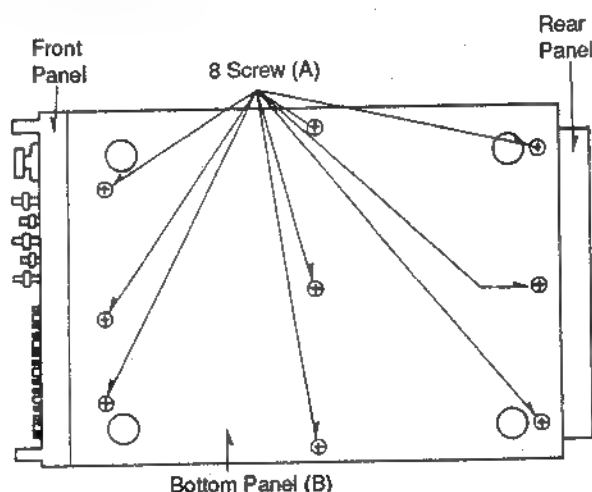
### FRONT LOADING (CARRIAGE) UNIT

1. Remove the 4 screws (F) and loosen the 2 silver screws (G) then pull the front panel forward.
2. Remove the 4 screws (B) and remove the carriage fix plate.
3. Remove the 2 screws (C) on the chassis as shown in figure.
4. Turn the front loading motor by hand until front loading is completed. (To expose screws "D")
5. Remove the 2 screws (D) and connector (E).
6. Turn the front loading motor by hand until eject condition is completed and then carefully lift the cassette compartment (CARRIAGE) unit up and remove.



### BOTTOM PANEL

1. Unscrew the 8 screws (A) and remove the bottom panel (B).



### 3. MAJOR MECHANISM PARTS REPLACEMENT PROCEDURES

#### 3-1. GENERAL

When mechanical parts are replaced, pay attention to the following notes:

- (1) Always turn the power off before replacing any parts.
- (2) If any adjustment is necessary after the part is replaced, perform the adjustment after replacement.
- (3) Use proper hand tools or fixtures.
- (4) Be sure to clean the Parts after replacement.

Also when the mechanical parts are replaced, follow the replacement procedures.

#### 3-2. UPPER DRUM REPLACEMENT

##### Tools Required:

Head Adjustment Plate (VFK0287)  
Dial Gauge (VFK0325)  
RT Gap Spacer (VFK0296) for AU-665  
Hex Wrench (1.27mm 2mm 2.5mm)

##### 3-2-1. Replacement

##### Removal

<For AU-65/62>

1. Unscrew the 2 screws (A) and remove the cleaner roller unit as shown in figure 3-2-1.
2. Unscrew the 2 screws (B) and remove the earth brush unit as shown in figure 3-2-1.
3. Unscrew the 2 screws (C) and unsolder 12 lead wires of upper drum unit as shown in figure 3-2-2.
4. Remove the upper drum unit.

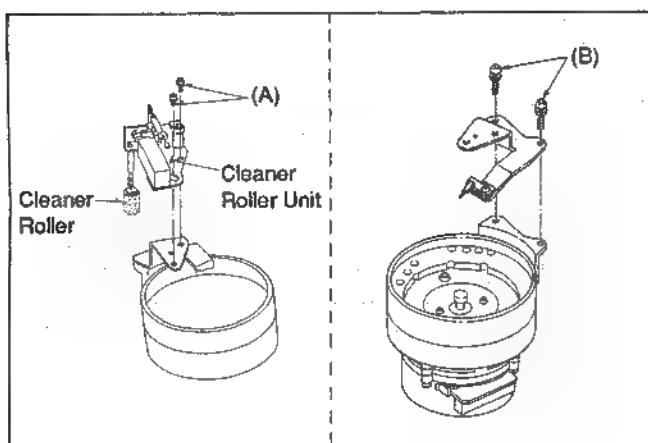


Fig. 3-2-1 Cleaner Roller and Earth Brush Unit

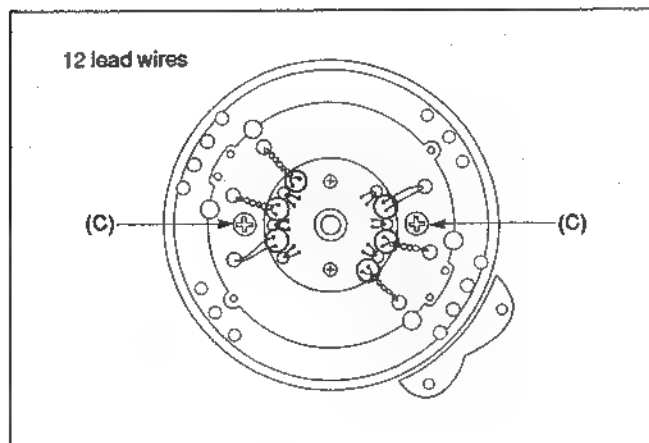


Fig. 3-2-2 Lead Wires of Upper Drum

<For AU-63>

1. Unscrew the screw (A) and remove the brush cover as shown in figure 3-2-3.
2. Unscrew 2 screws (B) and remove the cleaner roller unit as shown in figure 3-2-3.
3. Unscrew the 2 screws (C) and remove the brush unit as shown in figure 3-2-4. (Caution : brushes are easy to bent)
4. Unscrew the 2 screws (D) and unsolder the 2 lead wires of slip ring and then remove the slip ring as shown in figure 3-2-5.
5. Unscrew the 2 screws (E) and unsolder 12 lead wires of upper drum unit as shown in figure 3-2-6.
6. Remove the upper drum unit.

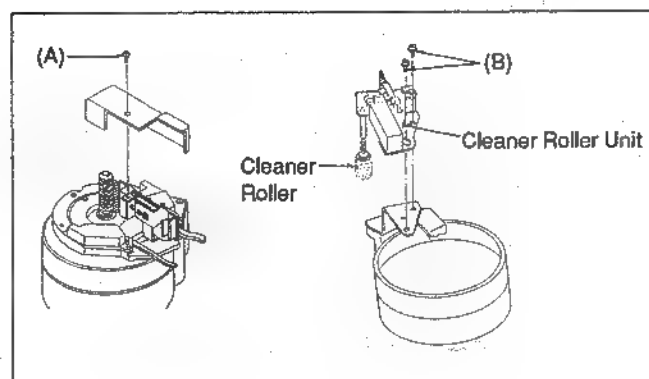


Fig. 3-2-3 Brush Cover and Cleaner Roller

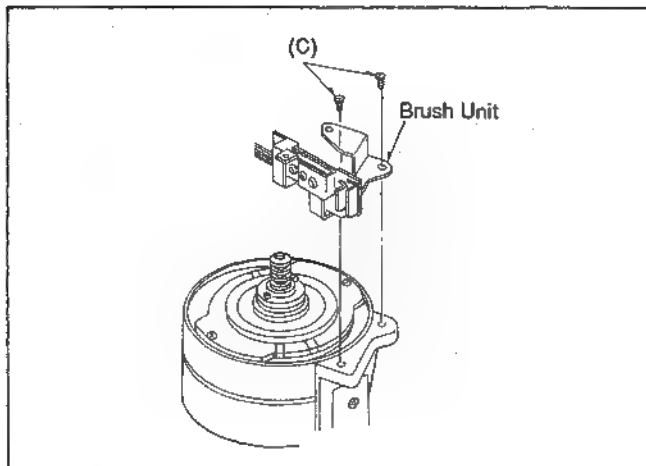


Fig. 3-2-4 Brush Unit

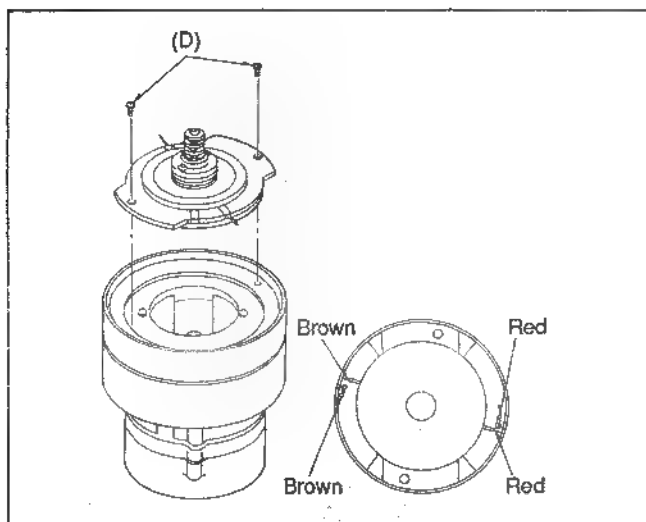


Fig. 3-2-5 Slip Ring Removal

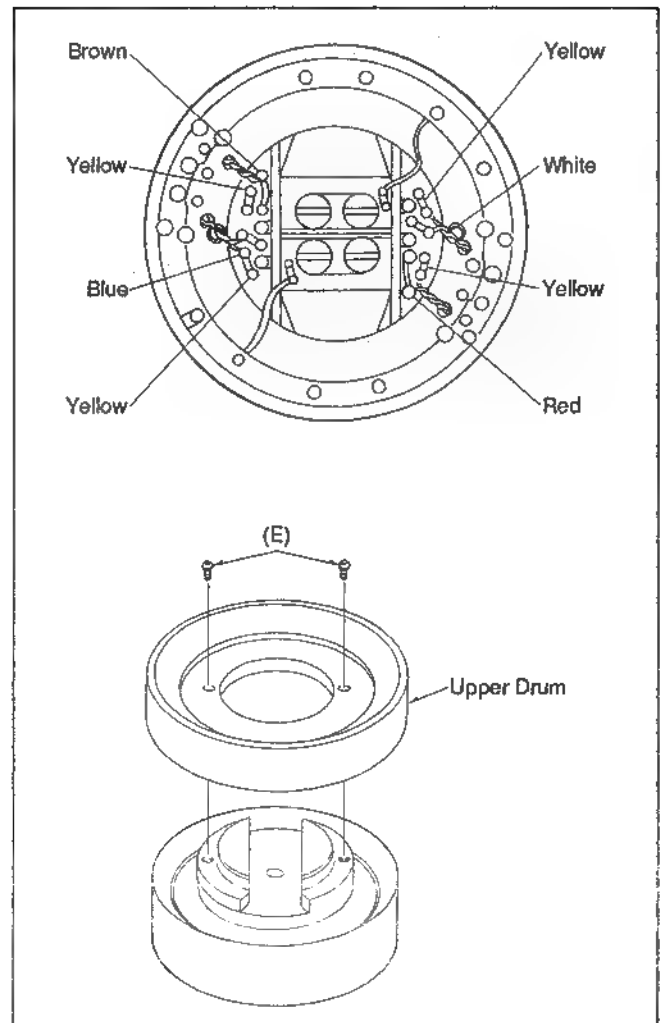


Fig. 3-2-6 Upper Drum Removal

<For AU-665>

1. Unscrew screw (A) and remove the brush cover as shown in figure 3-2-7.
2. Unscrew the 2 screws (B) and remove the cleaner roller unit as shown in figure 3-2-7.
3. Unscrew the 2 screws (C) and remove the brush unit as shown in figure 3-2-8. (Caution : brushes are easily bent)
4. Unscrew the 2 screws (D) and remove the rotary transformer arm unit as shown in figure 3-2-9.
5. Unscrew the 2 screws (E) and unsolder 14 lead wires of slip ring and then remove the slip ring as shown in figure 3-2-10.
6. Unscrew the 2 screws (F) and unsolder 8 lead wires of upper drum unit as shown in figure 3-2-11.
7. Remove the upper drum unit.



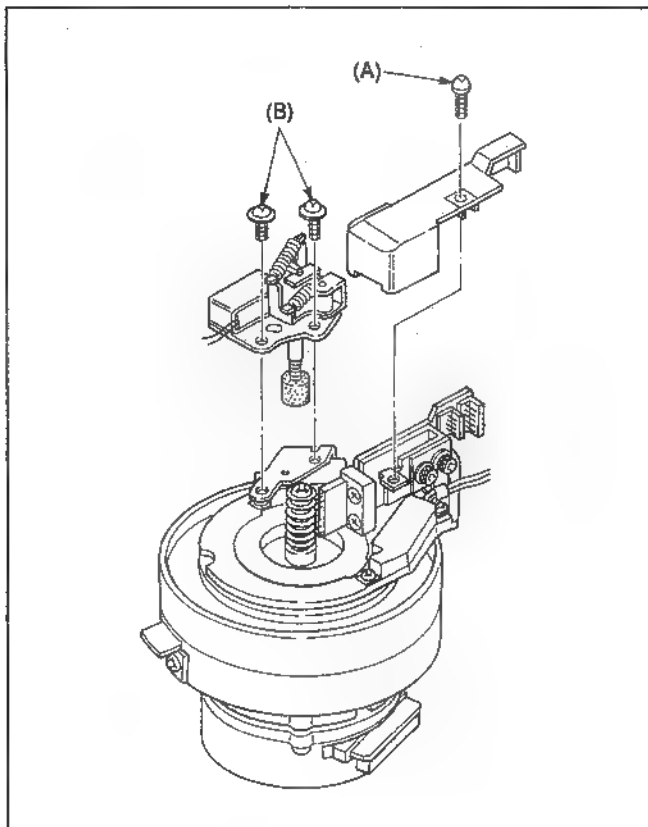


Fig. 3-2-7 Brush Cover and Cleaner Roller

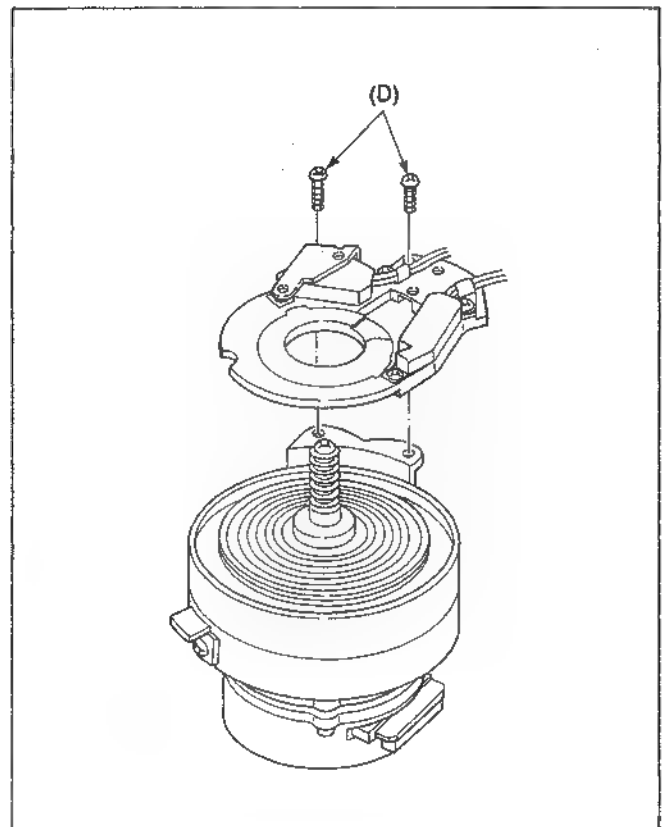


Fig. 3-2-9 Rotary Transformer

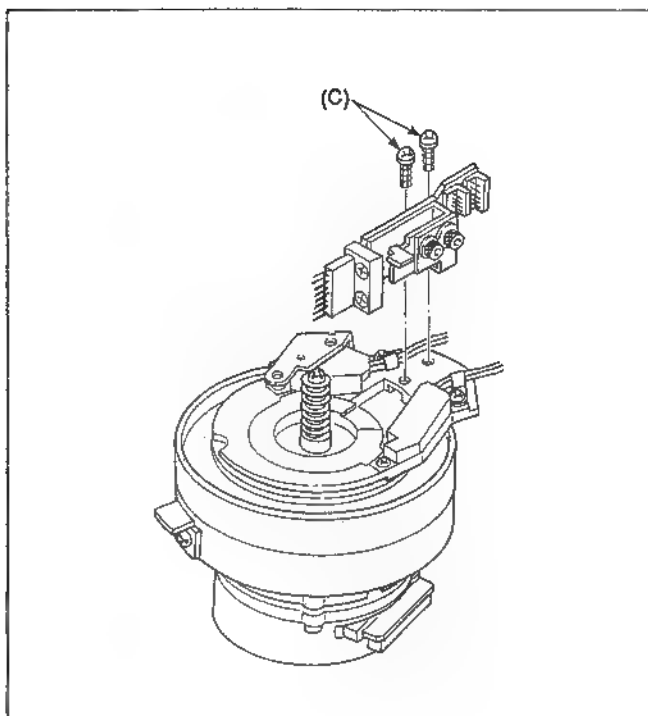


Fig. 3-2-8 Brush Unit

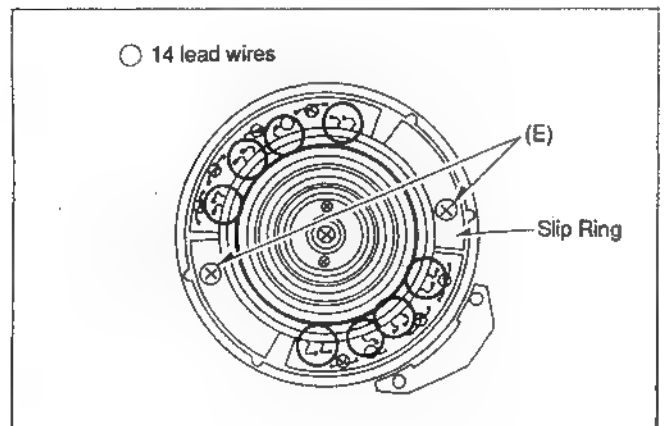


Fig. 3-2-10 Slip Ring

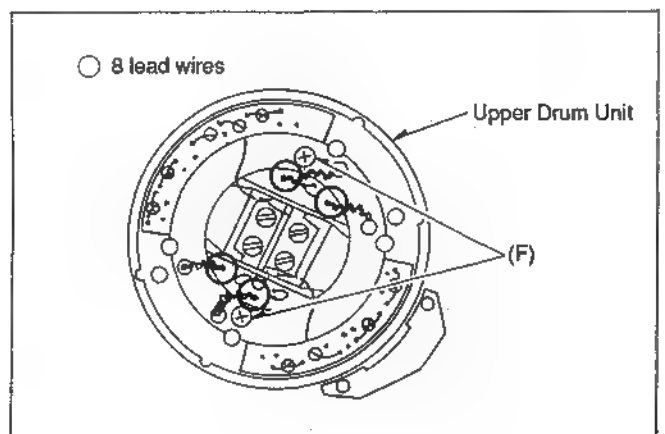


Fig. 3-2-11 Lead Wires of Upper Drum

### 3-2-2. Installation

1. Before install the new upper drum, clean these areas using head cleaning stick (VFK27) or soft cloth as shown in figure 3-2-12.

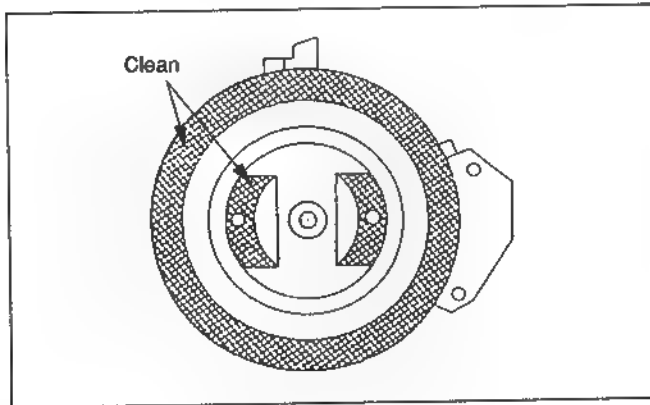


Fig. 3-2-12 Cleaning Part

2. Install the new upper drum so that the wire colors match, and loosely tighten the 2 screws for upper drum unit.
3. Install the head adjustment plate in place of the rotary transformer with attached 2 screws.
4. Mount the dial gauge with screw (A) (figure 3-2-13) so that the pick up of the dial gauge touches the upper part of the rotating drum.
5. Adjust the screw (B) of the head adjusting plate so that the pick up touches the drum and increases 20 to 80um in indication.

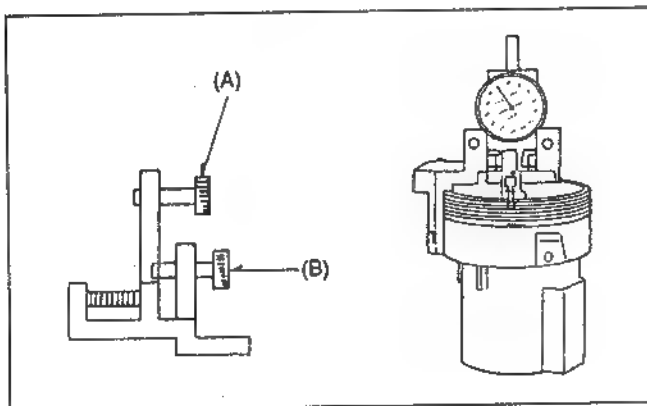


Fig. 3-2-13 Dial Gauge

6. Rotate the outer ring of the dial gauge to set the meter indication to zero. Rotate the upper drum slowly by hand. If the upper drum is not concentric with its axis of rotation, the meter will swing back and forth, indicating the amount of error. The maximum allowable tolerance is within  $\pm 1.5\mu\text{m}$ .

7. If it is out of specification, adjust the position of the upper drum by tapping lightly with the plastic handle of a screwdriver on the side of the drum opposite from the point of measurement. When the eccentricity is within  $\pm 1.5\mu\text{m}$ , gently tighten the 2 screws for upper drum. Check eccentricity to make sure it is within specification. If it is out, repeat this procedure.

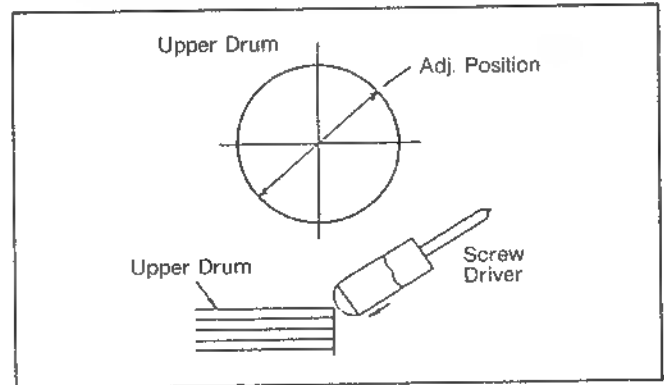


Fig. 3-2-14 Upper Drum Adj.

8. Tighten the 2 screws of upper drum securely and check eccentricity again. If it is within  $\pm 1.5\mu\text{m}$ , remove the head adjustment plate.
9. Solder the lead wires of the upper drum to their matching colors.
10. Install the FE brush unit and cleaner roller. (for AU-65/62)
11. Install the slip ring unit and tighten the 2 screws. (for AU-63/665)
12. Solder the lead wires of the slip ring. (for AU-63/665)

Procedures 13, 14 are for AU-665 only.

13. Set the RT gap spacer on the lower part of the rotary transformer and install the upper RT unit, with the 2 screws. (Fig. 3-2-15)
14. To assure proper spacing of the two halves of the rotary transformer, the 3 hex screws (A) are adjusted (clockwise) so that the upper half of the rotary transformer touches the spacer at all three points. Hex screws (B) should be loose during this procedure. Loosen each screw (A) counterclockwise slightly until the spacer can be pulled free, then keep this gap and tighten the 3 hex screws (B) evenly (Do not tighten up in sequence). Check to see that the upper drum turns freely (no sound) even if using the RT gap spacer. (Fig. 3-2-16)

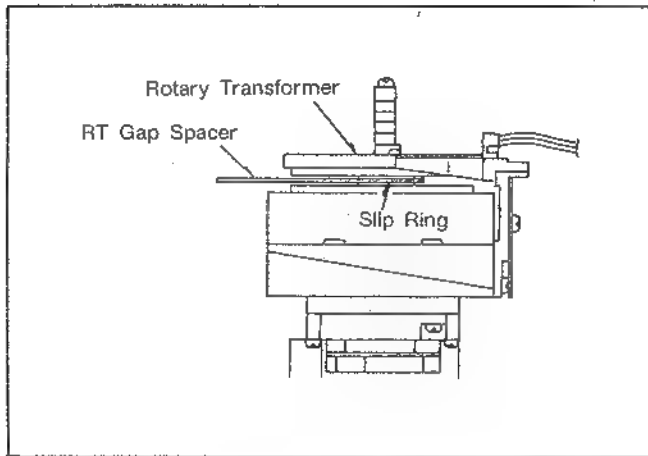


Fig. 3-2-15 RT Gap Spacer

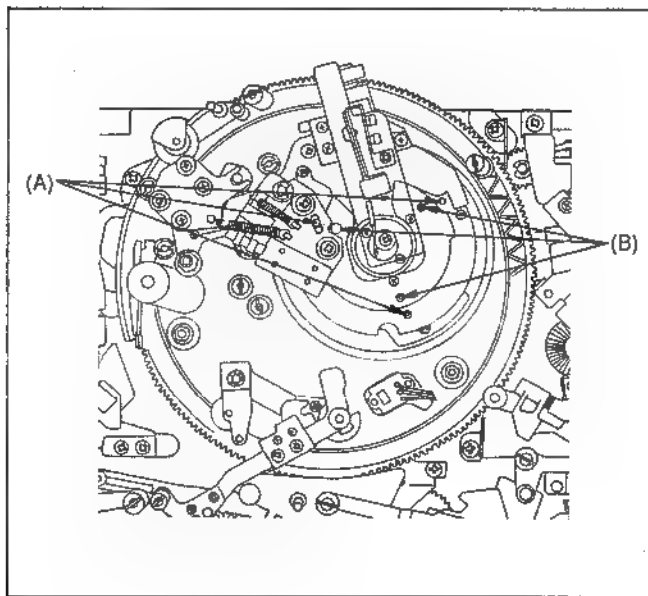


Fig. 3-2-16 Rotary Transformer

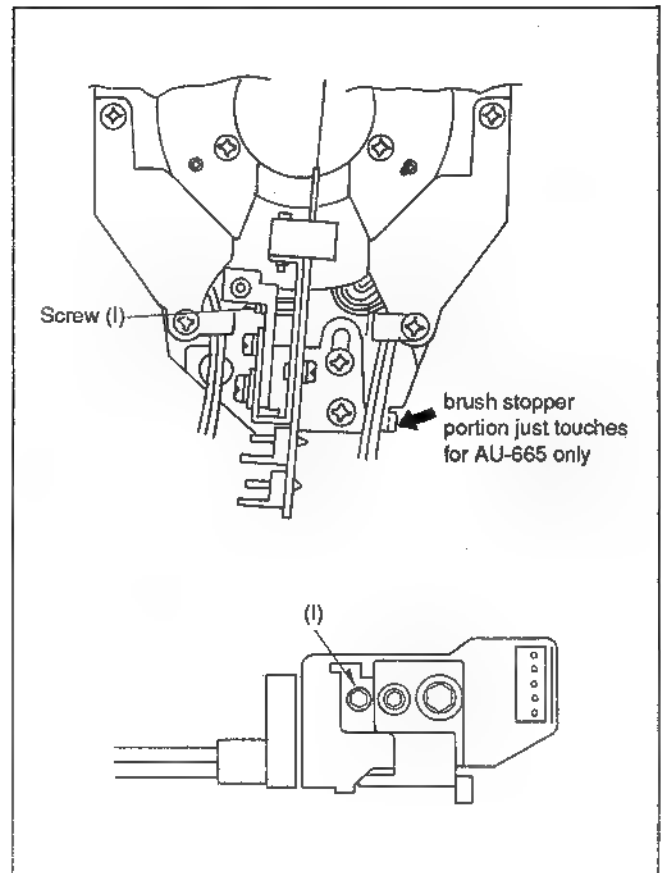


Fig. 3-2-17 Brush Unit Installation

**Note:**

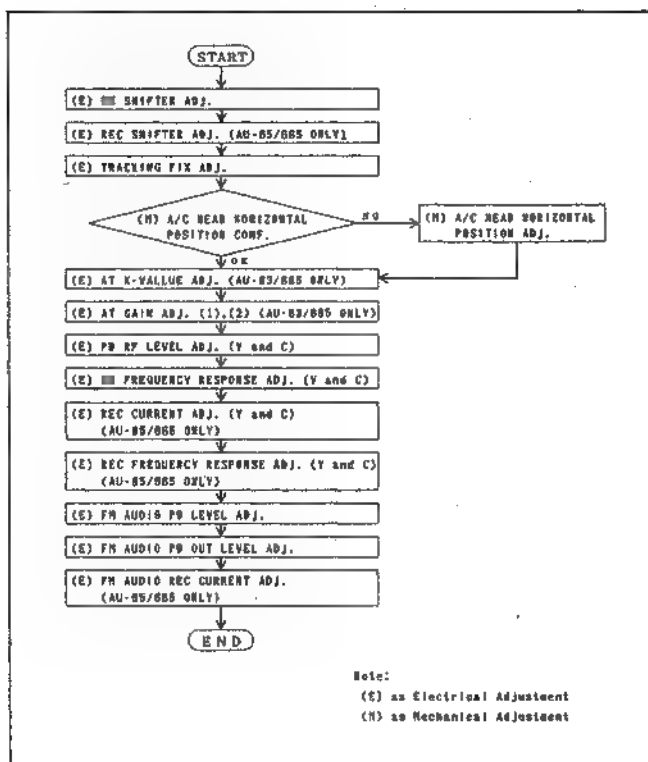
When the upper drum is replaced, run the cleaning cassette (AU-MPSCL) for 60 second to polish the head surface.

**3-2-3. ADJUSTMENT**

After the replacement, perform the following electrical adjustments.

Following procedures (15 to 17) are AU-63/665 only.

15. Install the brush unit and tighten the 2 screws for brush unit.
16. Normally brush tension need not be adjusted unless new brushes are installed. However, to check the brush adjustment, first of all, confirm that the brush stopper portion (bending portion of the metal plate) is just touches the RT arm cutting portion as shown in figure 3-2-17. ( AU-665 only) And loosen the screw (I) until they are straight and still touching the slip ring assembly, then tighten the screw (I) 1 and 1/2 turns clockwise.
17. Install the brush cover and cleaner roller unit and then tighten the screws.



**Note:**

After adjustment of Upper Drum, confirm that the RF envelope is flat using the alignment tape linearity portion.

### 3-3. DRUM UNIT REPLACEMENT AND ADJUSTMENT

#### 3-3-1. Removal

1. Disconnect the connector (A). (for AU-63 only)  
 Disconnect the 4 connectors (A) (B) (C) and (D) as shown in figure 3-3-1. (for AU-66S only)

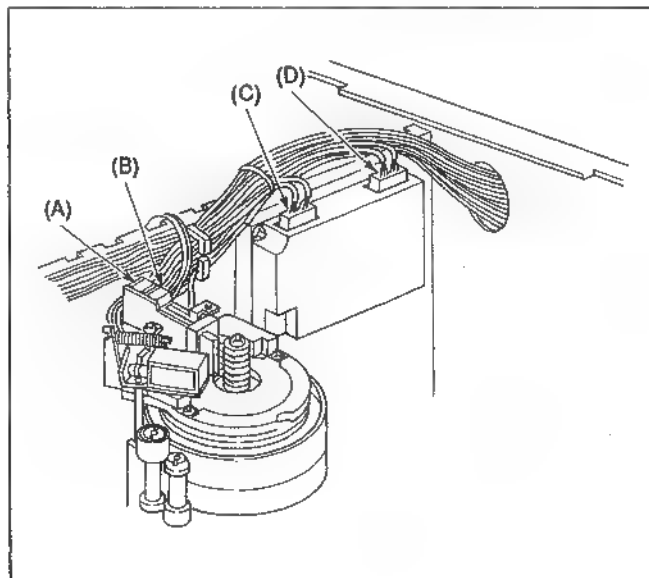


Fig. 3-3-1 Drum's Connectors

2. Unscrew the 2 screws to removing the cleaner unit as shown in figure 3-3-2.
3. Remove the bottom plate.
4. Remove the SYSCON and TCG/TCR P.C.Board (option for AU-65/63/62) as shown in figure 3-3-3.
5. Disconnect the 5 connectors (E), (F), (G), (H), and (I) from the bottom side as shown in figure 3-3-4.
6. Remove the 3 screws to removing the Drum Unit from tape transport side as shown in figure 3-3-5.

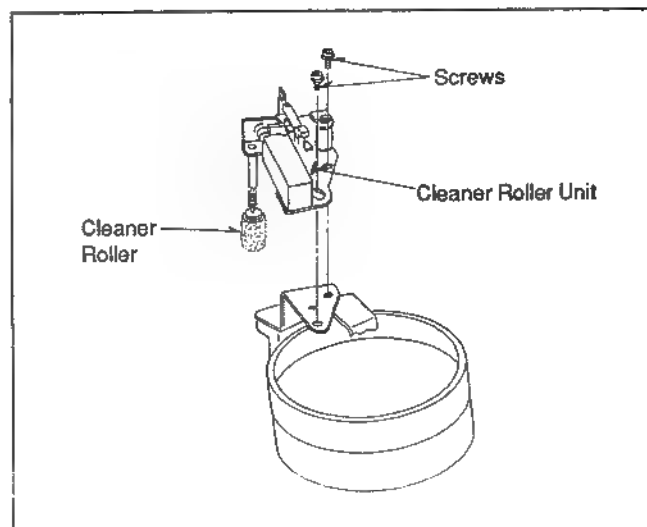


Fig. 3-3-2 Cleaner Roller Removing

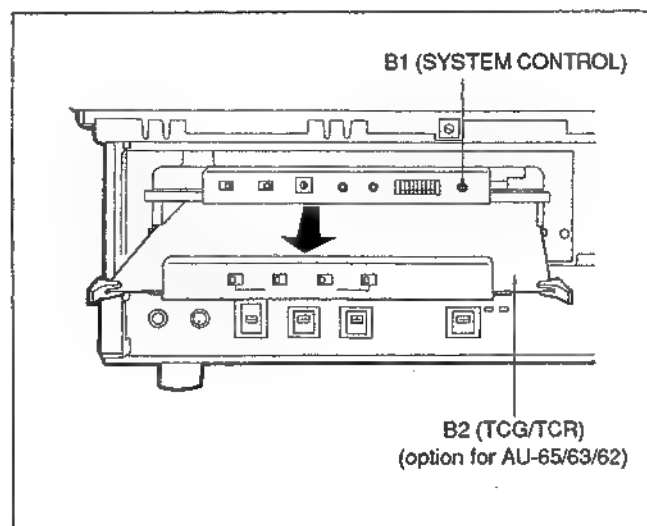


Fig. 3-3-3 B1 and B2 Unit Removal

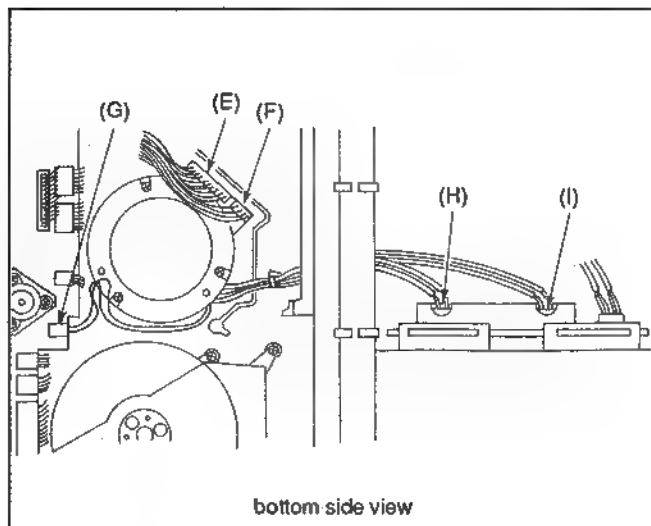


Fig. 3-3-4 Drum's Connector

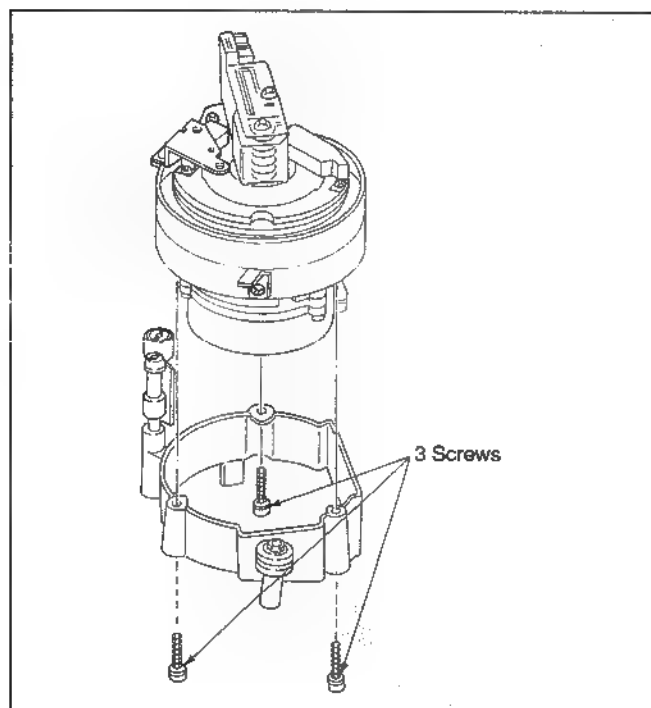


Fig. 3-3-5 Drum Unit Removal

### 3-3-2. Installation and Confirmation

1. Install new head drum assembly.  
(Don't touch tape contact surface of drum unit)
2. Tighten the 3 screws evenly.  
(recommended driver torque --- 8 kg/cm)
3. Reconnect the connectors that were disconnected during the removal.
4. Install the Head Cleaner Unit.
5. Push the solenoid and rotate the drum counterclockwise as shown in figure 3-3-6.
6. Confirm that the projection part (A) is positioned as center of a dent part (B) as shown in figure 3-3-6.

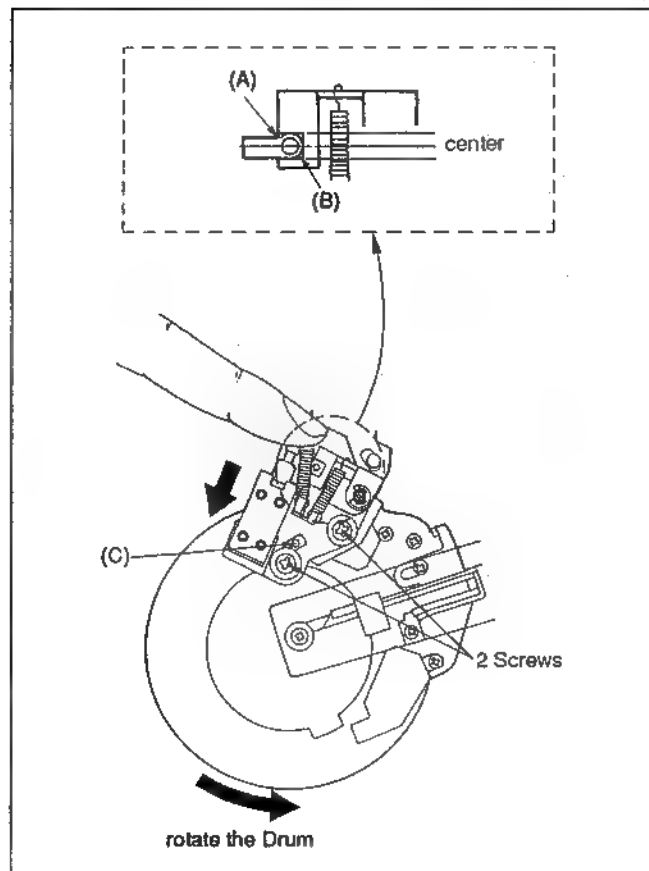


Fig. 3-3-6 Solenoid Position

7. If it is not, loosen the 2 screws and insert the eccentric screw driver into hole (C) and adjust the Cleaner position. (Fig. 3-3-6)
8. Clean the head drum using alcohol. After cleaning using alcohol, wipe the head using dried cloth.
9. Make a recording for a few minutes and playback the portion that was just recorded about 2 second.
10. Press the STOP button and confirm that the top of envelope is stable. (less than 0.2 msec) as shown in figure 3-3-7.
11. If it is not, confirm that the wires from the drum is not pinched between drum and chassis or confirm that the 3 screws are exactly tightened.

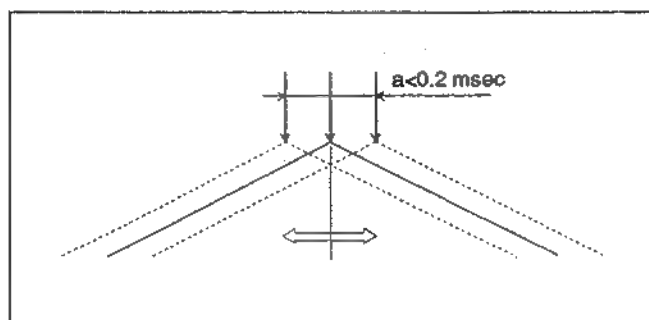
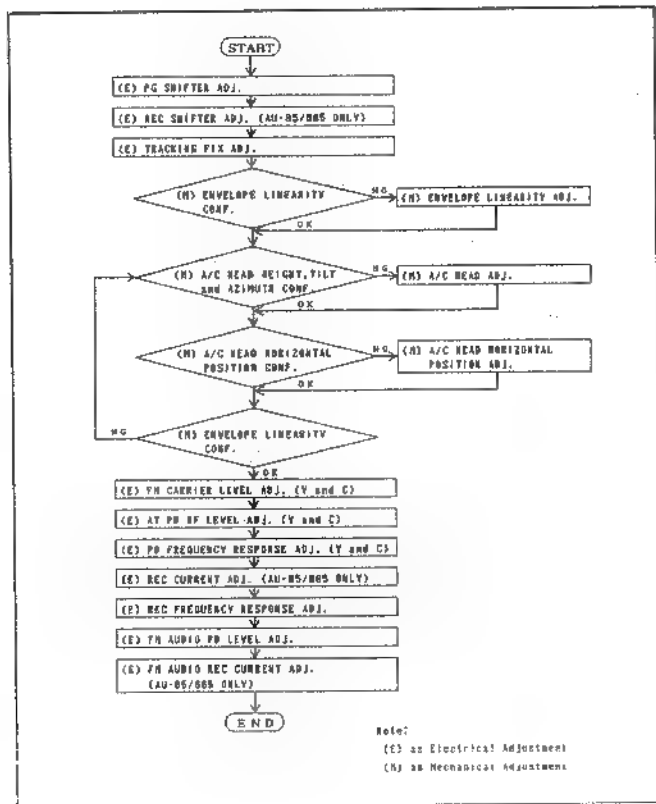


Fig. 3-3-7 Envelope Out

### 3-3-3. Adjustment

1. After the replacement, perform the following confirmation and adjustment.



### 3-4. CLEANER ROLLER REPLACEMENT AND ADJUSTMENT

**\*Tool Required**  
 Eccentric Screwdriver

#### Removal

1. Remove the 2 screws (A) and remove the cleaner unit.
2. Remove the cleaner roller.

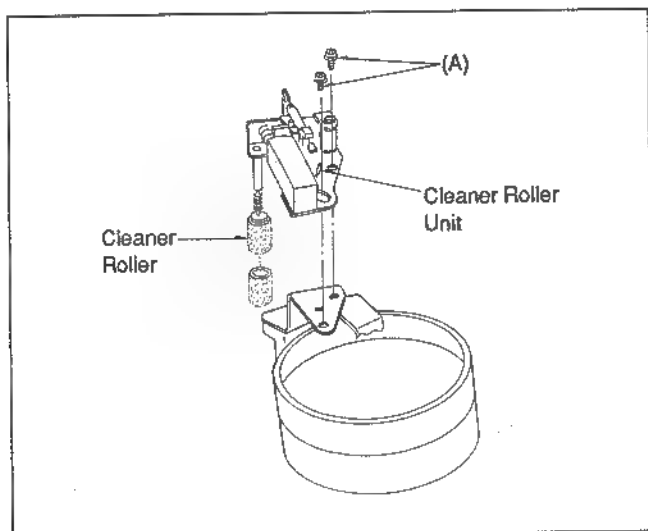


Fig. 3-4-1 Cleaner Unit

#### Installation

1. Follow the removal steps in reverse order.

#### Cleaner Unit Position Adjustment

1. Push the solenoid and rotate the drum.
2. Confirm that the projection part (A) is positioned as center of a dent part (B) as shown in figure 3-4-2.
3. If it is not, loosen the 2 screws and insert the eccentric screw driver into hole (C) and adjust the cleaner position.

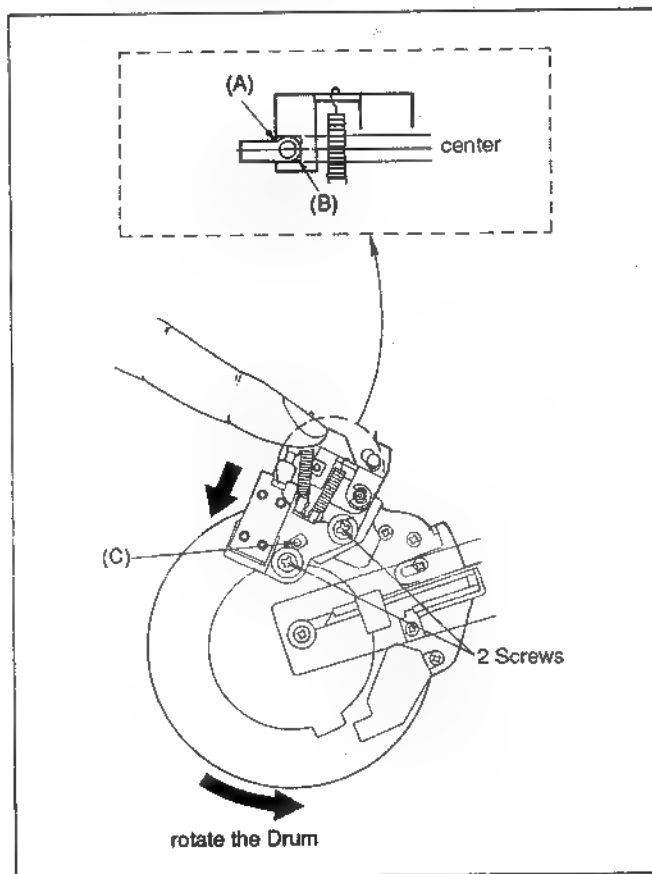


Fig. 3-4-2 Cleaner Unit Position

### 3-5. PINCH ROLLER ARM UNIT REPLACEMENT

#### Removal

1. Push down the ring drive gear (A) by using a screw driver and move the loading ring counterclockwise so that the Pinch Roller reaches the position as shown in figure 3-5-1.
2. Remove the E-ring (C).
3. Remove the Pinch Roller unit (B).
4. Remove spring. (Fig. 3-5-2)

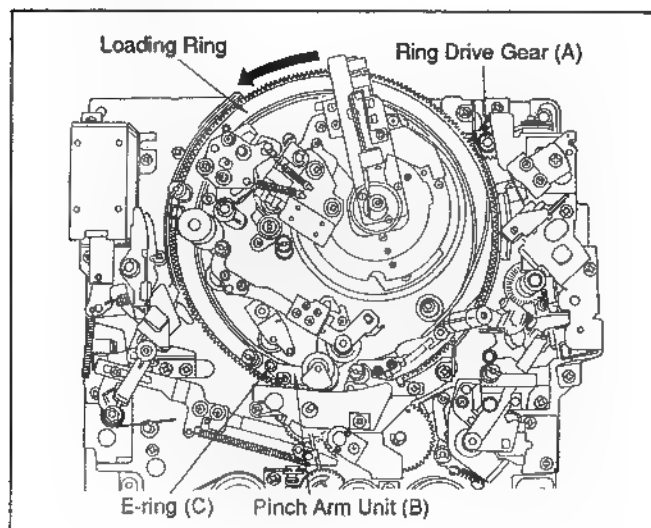


Fig. 3-5-1 Pinch Roller Arm Unit

#### Installation

1. Install a new Pinch roller unit and attach the spring, as originally installed, as shown in figure 3-5-2.
2. Turn the power on and insert a blank cassette. Playback the tape and observe the tape path. Be sure that no tape curling occurs on any post.

**Note:** When replacing the pinch roller, be sure not to lose the washer.

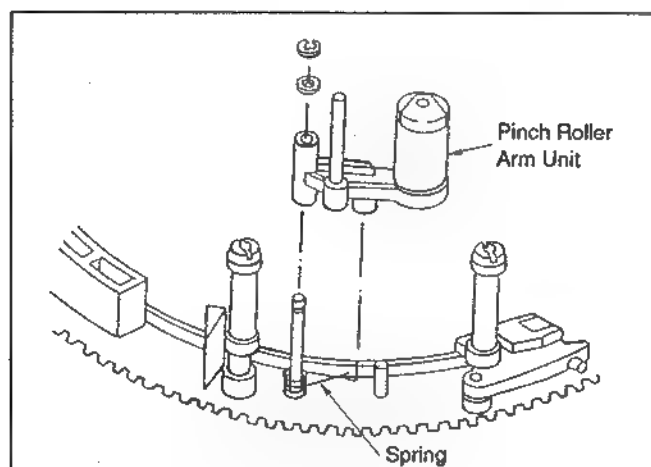


Fig. 3-5-2 Spring Position

### 3-6. LOADING MOTOR BELT REPLACEMENT

#### Removal

1. Remove the loading belt to direction (A) as shown in figure 3-6-1.

#### Installation

1. Put new loading belt onto the loading motor first as shown in figure 3-6-2.
2. Then replace onto the wormgear pulley as shown in figure 3-6-2.
3. Clean the belt after replacement.

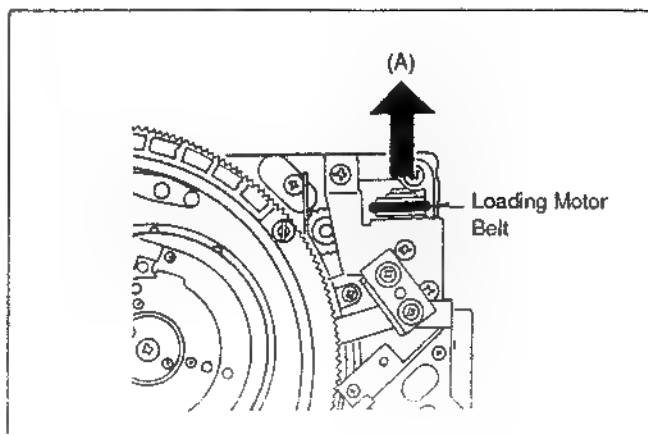


Fig. 3-6-1 Loading Motor Belt (1)

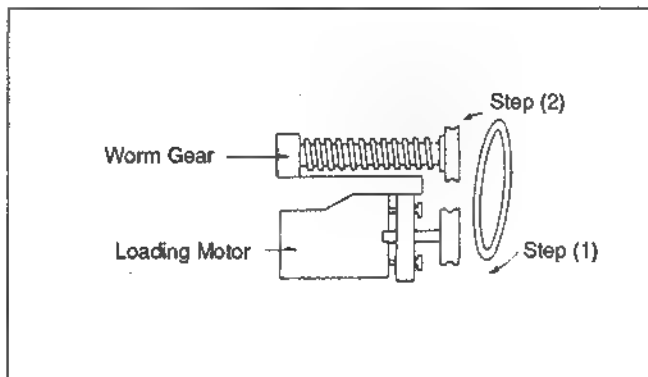


Fig. 3-6-2 Loading Motor Belt (2)

### 3-7. FRONT LOADING MOTOR BELT REPLACEMENT

#### Removal

1. Remove the belt from the wormgear shaft side pulley.
2. Remove the belt from the motor side.

#### Installation

1. Install the new belt in reverse order.
2. Clean the belt after replacement.

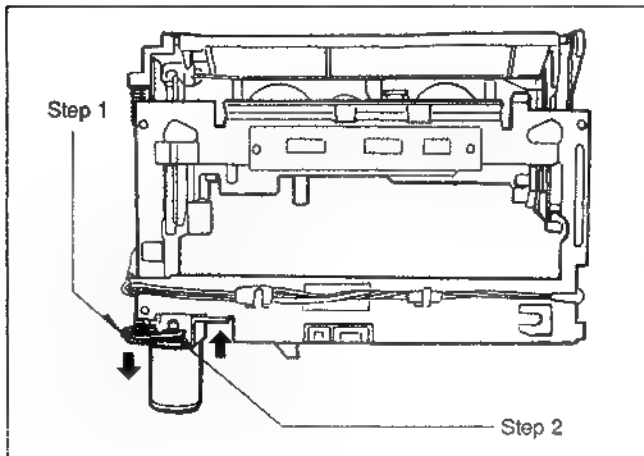


Fig. 3-7-1 Front Loading Motor Belt

### 3-8. TENSION UNIT REPLACEMENT AND ADJUSTMENT

#### \*Tools Required

Tentelometer (VFK0132)  
Eccentric Screwdriver (VFK0357) (VFK0359)  
Digital Voltmeter

#### 3-8-1. SUPPLY TENSION SPRING PLATE AND STOPPER PIN BASE UNIT REPLACEMENT

#### Removal

1. Loosen the hex (A) and remove the Supply Tension Arm Unit as shown in figure 3-8-1.

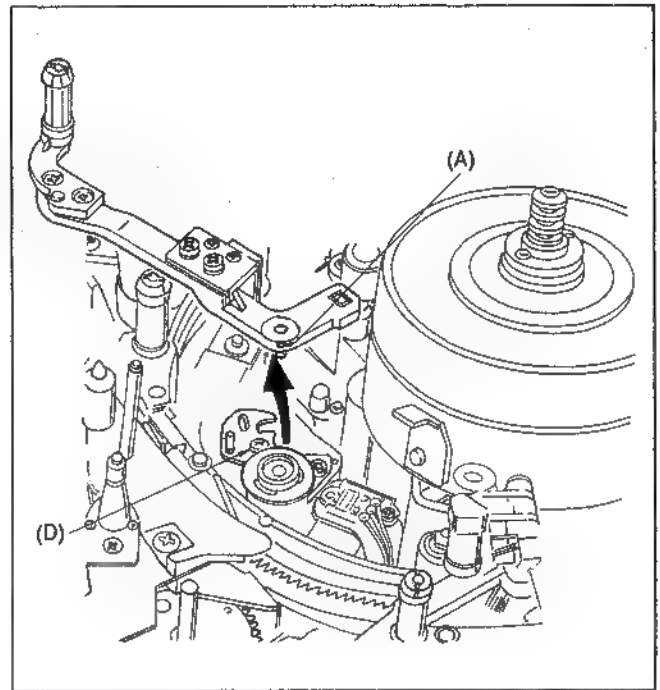


Fig. 3-8-1 Supply Tension Arm Unit

2. Unscrew the 2 screws (B) and remove the Spring Plate Unit as shown in figure 3-8-2.
3. Unscrew the 2 screws (C) and remove the Spring Plate as shown in figure 3-8-2.

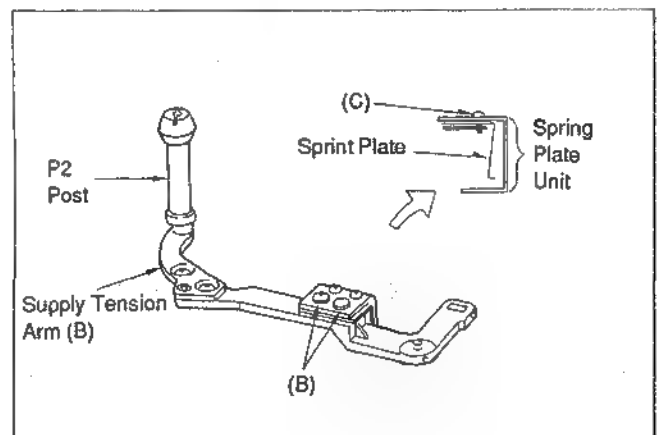


Fig. 3-8-2 Spring Plate Removal

4. Unscrew the screw (D) and remove the Stopper Pin Base Unit as shown in figure 3-8-1.

#### Installation

1. Install the new Spring Plate and Stopper Pin Base Unit in reverse order.

#### Note :

When installing the Supply Tension Arm Unit, the Stopper Pin is positioned into a rectangle hole of Spring Plate Unit as shown in figure 3-8-3 and tension pick-up post may have to be pushed from the bottom side. Because of the Tension pick-up post will slip down when installing as shown in figure 3-8-4.



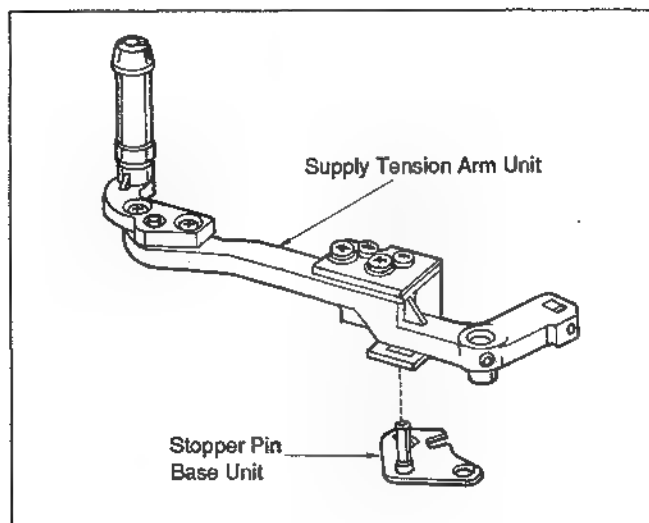


Fig. 3-8-3 S-Arm Installation

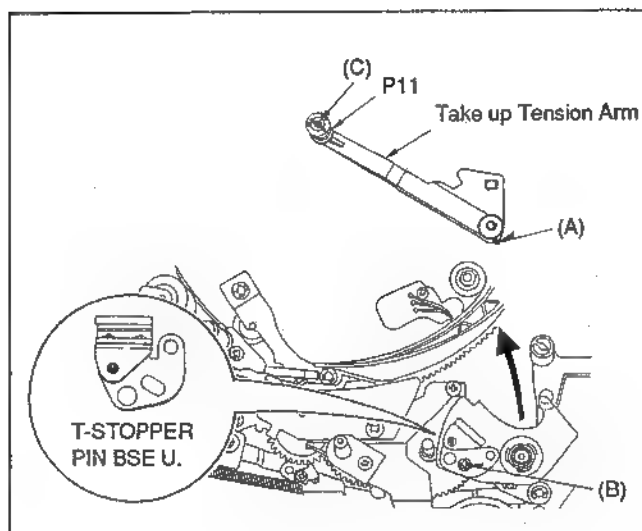


Fig. 3-8-5 Take Up Tension Arm Unit

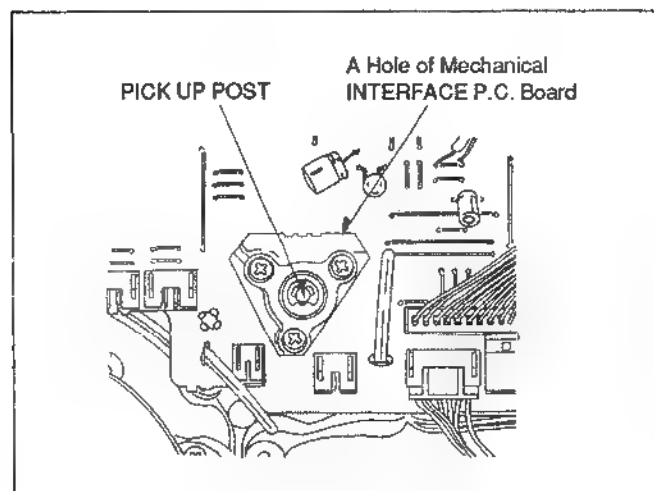


Fig. 3-8-4 Pick-up Post

### 3-8-2. TAKE UP TENSION ARM UNIT AND STOPPER PIN BASE UNIT REPLACEMENT

#### Removal

1. Loosen the hex screw (A) and remove the Take Up Tension Arm Unit as shown in figure 3-8-5.
2. Remove the P11 Post from removed Take Up Tension Arm Unit. (Do not loosen the hex screw (C) of the P11 Post.)
3. Unscrew the screw (B) and remove the stopper Pin Base Unit as shown in figure 3-8-5.

#### Installation

1. Install the removed P11 Post to new Take Up Tension Arm Unit.
2. Install the new Take Up Tension Arm Unit and Stopper Pin Base Unit in reverse order.

#### Note :

When install the Take Up Tension Arm Unit, the Stopper Pin is positioned into rectangular hole (D) of Take Up Tension Arm Base as shown in figure 3-8-6 and tension pick up post have to be pushed from the bottom side. Because of the tension pick-up post will go down when installing as shown in figure 3-8-7.

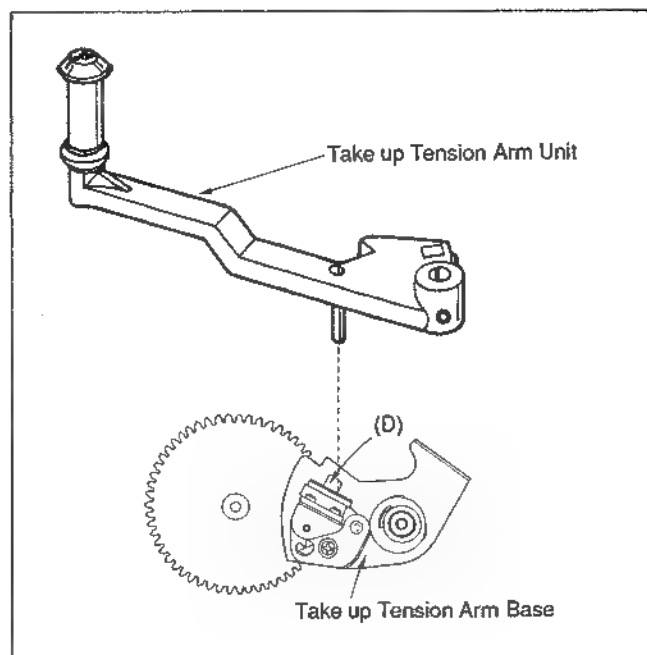


Fig. 3-8-6 T-Arm Installation

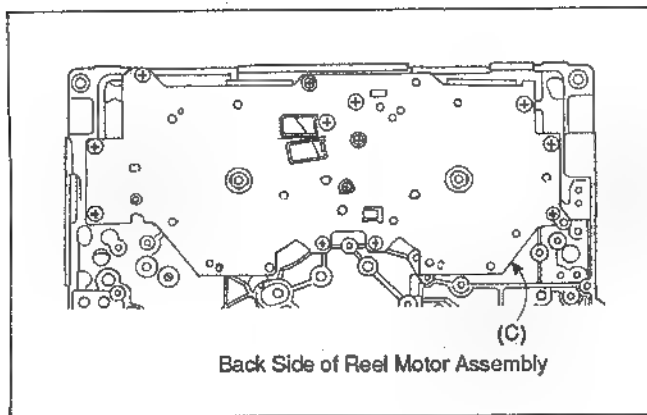


Fig. 3-8-7 Pick-up Post

### 3-8-3. MAGNET CLEARANCE ADJUSTMENT (Take Up side only)

**\*Tools Required :**  
 Dummy Plug (1) (VFK0361)  
 Hex Wrench  
 Thickness Gauge

1. Turn the power off.
2. Remove the front loading unit and connect the dummy plug (1) into P406 socket.
3. Turn the power ON.
4. Press the stop button without the tape.
5. observe the clearance (A) between magnet and sensor.  
 This clearance should be between  $0.5 \pm 0.1\text{mm}$  as shown in figure 3-8-8.
6. If not, loosen the hex screw (B) and adjust the position of the magnet using thickness gauge so that the clearance (A) is within specifications as shown in figure 3-8-8.
7. Tighten the hex screws.
8. Lock the magnet using loctite.

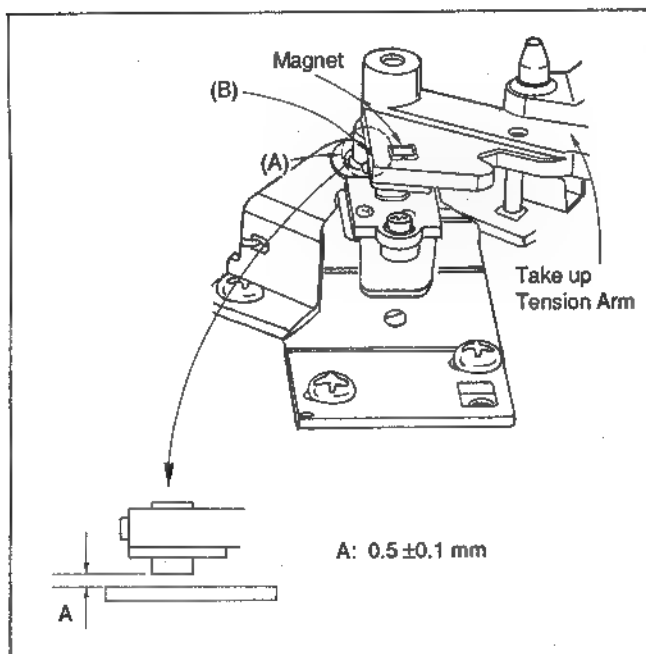


Fig. 3-8-8 Tension magnet

### 3-8-4. TENSION ADJUSTMENT

**\*Tools Required :**  
 Tentelometer (VFK0132)  
 Eccentric Screwdrivers (VFK0357)(VFK0359)  
 Digital Voltmeter  
 Dummy Plug 1 (VFK0361)

**Note 1 :**

Before performing tape tension confirmation Tension Meter should be calibrated as following procedure.

#### TENSION METER CALIBRATION PROCEDURE

1. Set a MII Metal tape to an ounce weight.
2. Pull up a tape by hand as shown in figure 3-8-9.
3. Adjust VR on the Tension Meter so that the tension meter reading is 1 ounce.

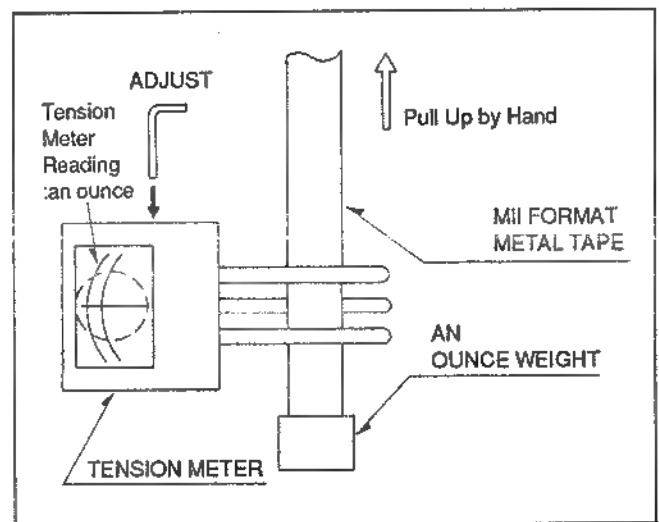


Fig. 3-8-9 Tension Meter Calibration

#### TENSION ADJUSTMENT (MECHANICAL)

1. Remove the front carriage unit and connect the dummy plug (1) into P406 socket.
2. Extend the SERVO(W5) board and turn power on.
3. Set the SYNC AUTO switch on the front sub panel to AUTO position.
4. Place the unit in the EJECT mode and connect a digital voltmeter to TP303. Adjust VR302 for  $2.5 \pm 0.01$  (V/DC). Connect the digital voltmeter to TP304, and adjust VR303 for  $2.5 \pm 0.01$  (V/DC).
5. Connect the digital voltmeter to TP312 and adjust VR308 for  $35 \pm 1$  (mV DC).
6. Set the mechanical neutral adjustment plate over the reel tables and fix the plate as shown in figure 3-8-10.

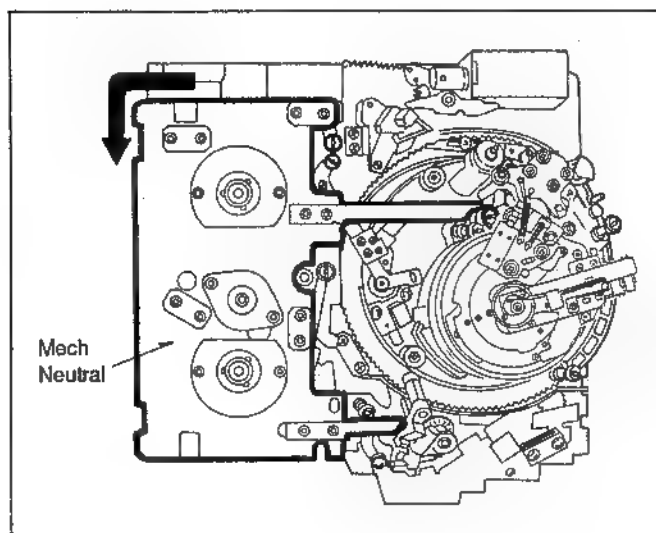


Fig. 3-8-10 Mech Neutral Plate

7. Connect the jumper wire between TP19 and TP20 to defeat the tape slack function.
8. Place the unit in the STOP mode. After loading is completed make sure that the P2 post touches the arm of the mechanical neutral adjustment plate as shown in figure 3-8-11.

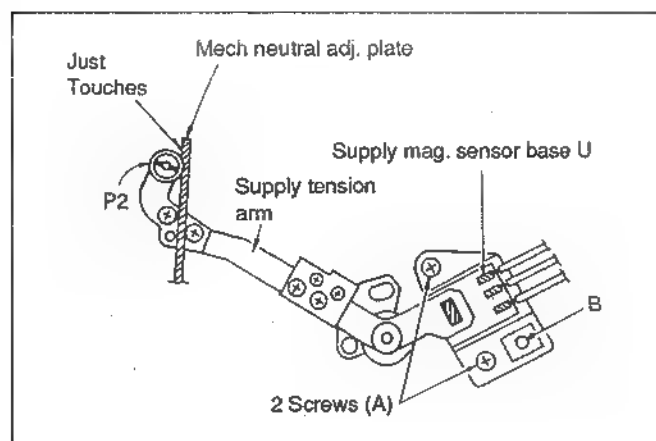


Fig. 3-8-11 Supply Tension

9. Measure the voltage at TP303 and TP304, and verify that it is  $2.5 \pm 0.05$  VDC.
10. If it is not, loosen the 2 screws (A) and insert the eccentric screwdriver into hole (B). (figure 3-8-11, 3-8-12)

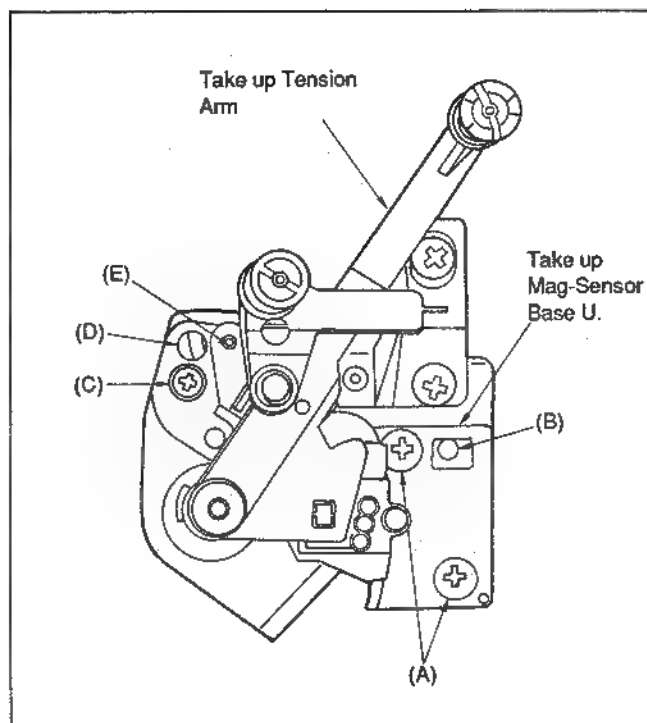


Fig. 3-8-12 Take Up Tension

11. Adjust the supply and take up magnet sensor base unit (figure 3-8-11, 3-8-12) so that the voltage at TP303 and TP304 are  $2.5 \pm 0.05$  VDC.

**Note :**

Do not use the magnetic driver, when adjust the magnet sensor base.

12. Tighten the screws (A) (make sure the voltage at TP303 and TP304 does not change) and remove the mechanical neutral adjustment plate.
13. Place the cassette over the reel tables (MP90 should be used) and place the weight on the cassette to hold it in place. (full roll of solder)
14. Place the unit in the PLAY mode from tape beginning and confirm that the tape tension between P1 and P2 is  $23 \pm 2$  grams as shown in figure 3-8-13. (Tape tension confirmation should be done after the tape movement has stabilized.)

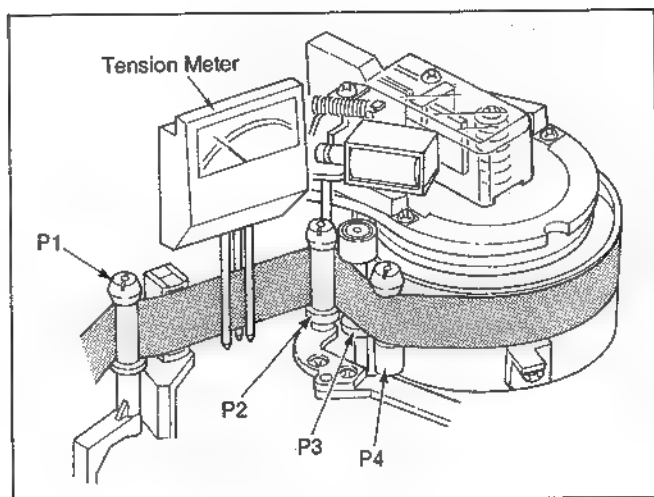


Fig. 3-8-13 Supply Tension

15. If it is not, loosen screw (A), and insert the eccentric screwdriver into hole (B) and adjust the tension as shown in figure 3-8-14.

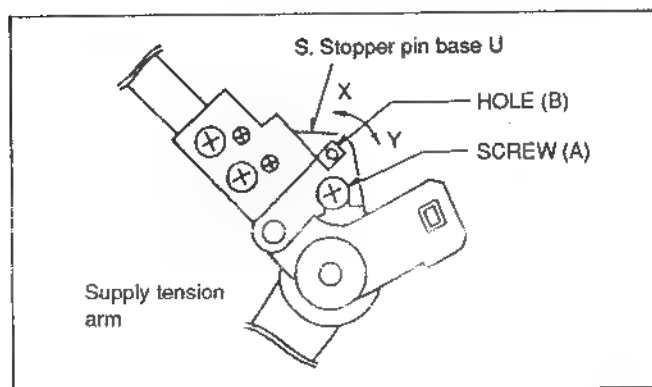


Fig. 3-8-14 Supply Tension Adj.

16. Tighten screw (A).  
17. Confirm that the tape tension between P9 and P10 post is 23 +/- 2 grams as shown in figure 3-8-15.

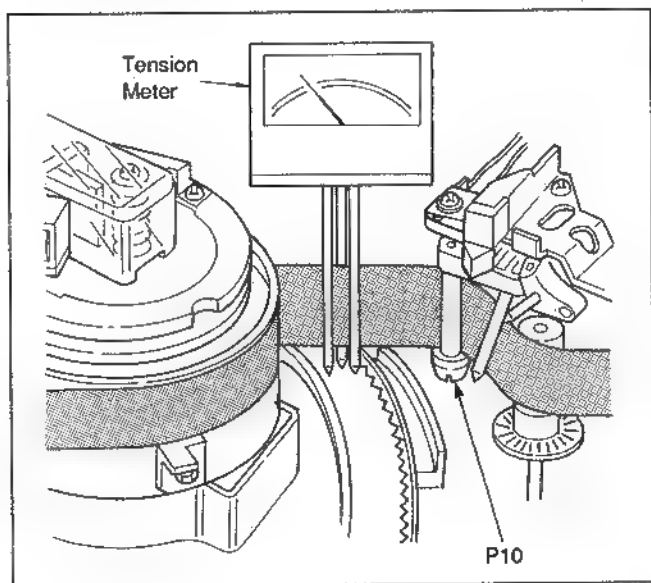


Fig. 3-8-15 Take Up Tension

18. If it is not, loosen the screw (C) and insert the eccentric screwdriver into hole (D) as shown in figure 3-8-12.  
19. Roughly adjust the take up tension to 20 grams between P9 and P10.  
20. Tighten the screw (D).  
21. Slightly adjust the hex screw (E) to 23 +/- 2 grams between P9 and P10.  
22. Place the unit in the SHTL or VAR X-1 mode around tape beginning portion and adjust VR309 so that the supply tension between P4 and drum entrance side is 20 +/- 1 grams as shown in figure 3-8-16.  
23. Place the unit in the SHTL or VAR X-1 mode around tape beginning portion and adjust VR305 so that the take up side tension is 30 - 35 grams between P9 and P10 post as shown in figure 3-8-17.

**Note :**

When the tension is adjusted in the SHTL or VAR X-1 (or REWIND) mode, the tension meter is turned around as shown in figure 3-8-16, 3-8-17.

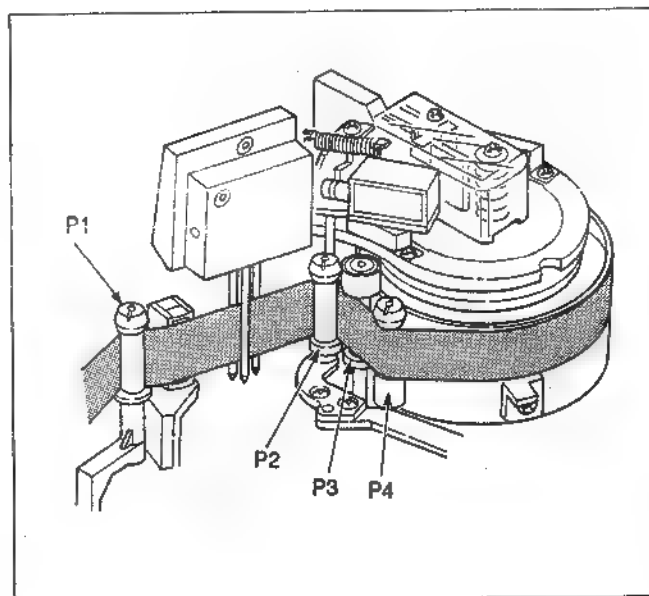


Fig. 3-8-16 Supply Tension

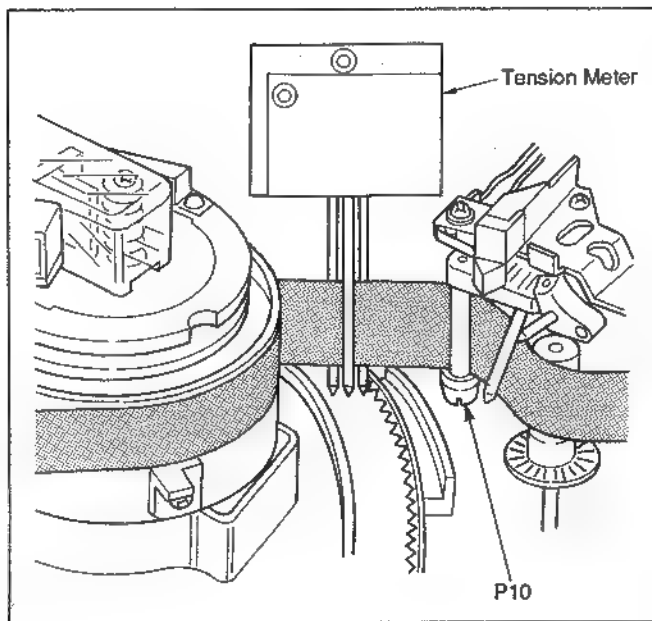


Fig. 3-8-17 Take Up Tension

23. Verify the voltage at TP302 and TP310 using digital voltmeter.
24. Place the unit in the PLAY mode and adjust VR301 so that the voltage (TP302)-(TP310) is  $-200 \pm 5$  mVDC.
25. Connect the jumper wire between TP309 and TP311 and place the unit in the PLAY mode.
26. Adjust VR307 so that the take up tension between P9 and P10 is 8 - 10 grams.
27. Remove the jumper wire between TP309 and TP311.
28. Place the unit in the FAST FORWARD mode from tape beginning portion (MPL90 should be used) and adjust VR304 so that the supply side tension between P1 and P2 is 15 - 20 grams.
29. Place the unit in the REWIND mode from tape ending (MPL90 should be used) and adjust VR306 so that the supply side tension between P1 and P2 is 40 - 50 grams.
30. Remove the jumper wire between TP19 and TP20.
31. Place the unit in the PLAY mode without tape and confirm that the AUTO OFF mode is functioned.

### 3-9. REEL STAND UNIT REPLACEMENT

#### Replacement

1. Remove the B1 SYSTEM CONTROL and B2 TCG/TCR (option for AU-65/63/62) P.C.Board from front-sub panel as shown below.

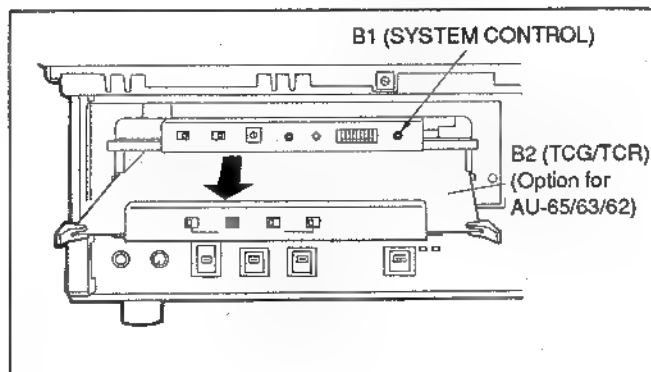


Fig. 3-9-1. B1 and B2 unit Removal

2. Remove the bottom panel.
3. Remove the 3 screws (A) on MECH. INTERFACE CIRCUIT P.C.Board and move the P.C.Board as shown in figure 3-9-2.
4. Disconnect the 7 connectors (P61020, P61017, P61002, P61025, CN121, CN110, CN111) on the MECH. INTERFACE CIRCUIT P.C.Board then move the P.C.Board as shown in figure 3-9-2.

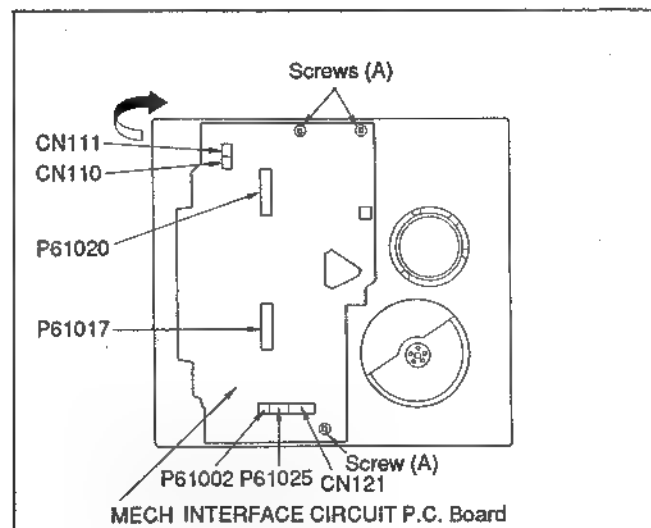


Fig. 3-9-2 MECH INTERFACE CIRCUIT P.C.Board

5. Remove the 9 screws (B) and remove Reel base unit.

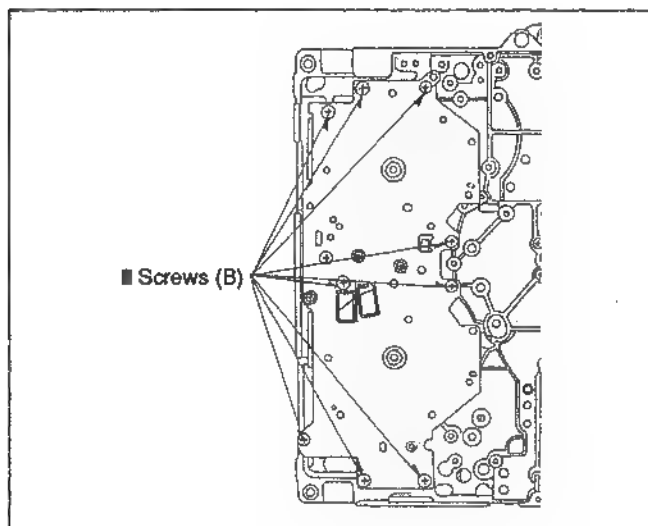


Fig. 3-9-3 Reel Base Unit Removal

6. Pull and remove the Reel stand unit.

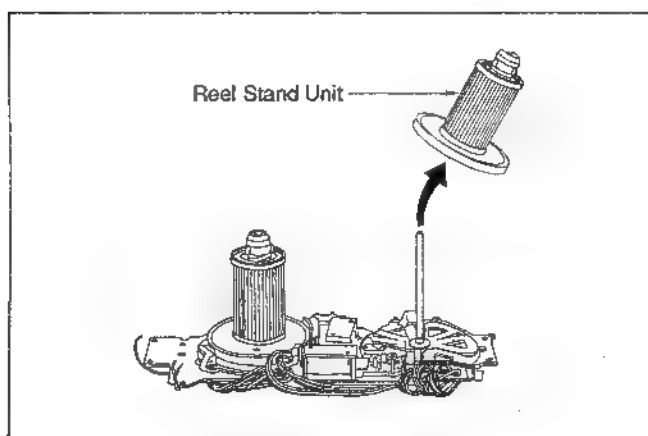


Fig. 3-9-4 Reel Stand Unit Removal

## Installation

1. Reverse the previous steps.

## 3-10. A/C HEAD REPLACEMENT AND ADJUSTMENT

### 3-10-1. Replacement

#### \*Tools required:

- Nut Driver (7m/m) (VFK0676)
- Hex Wrench (VFK0326)

#### Removal

1. Remove the nut (A), loosen the hex-screw (B), hang off the height adjustment spring and then remove A/C Head assembly as shown in figure 3-10-1.

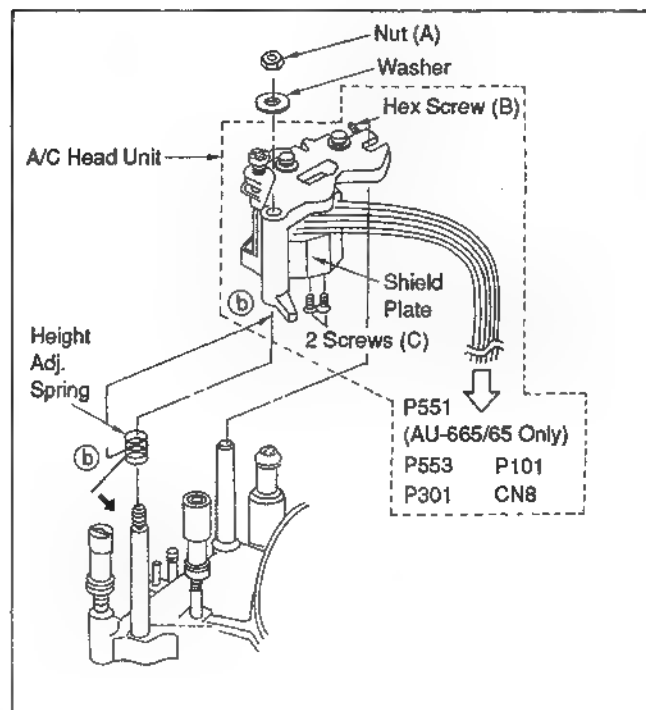


Fig. 3-10-1 A/C Head Removal

2. Remove the shield plate by removing 2 screws (C) as shown in figure 3-10-1 and disconnect the connectors which is connected to Audio P.C.Board (W6) as shown in figure 3-10-2.
3. Unsolder green cable only as shown in figure 3-10-3.

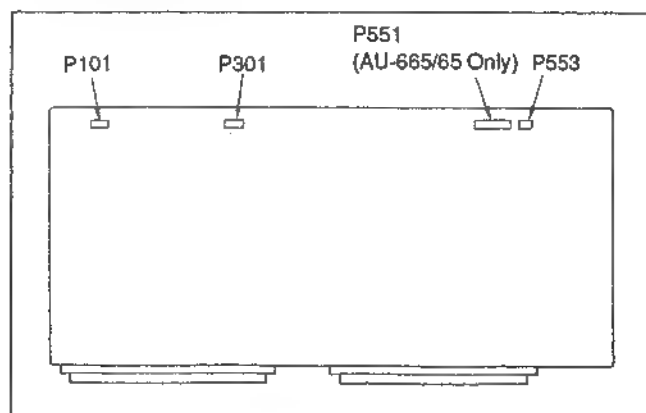


Fig. 3-10-2 Audio P.C.Board (W6)

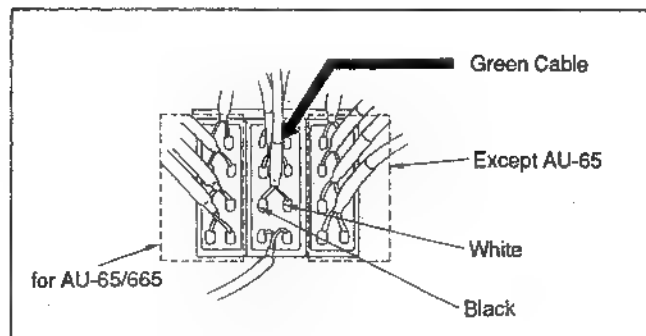


Fig. 3-10-3 A/C Head Connector

### 3-10-2. Installation

1. Confirm that the head and head mounting plate is set to be approximately 1 mm with the plate parallel as shown in figure 3-10-4. If it is not, adjust the each screws to these plate parallel.
2. Solder the green cable to new A/C Head. (Supplied service parts is connected a green cable. Therefore, it is necessary to remove green cable before installing)
3. Reinstall the shield plate onto the A/C head assembly
4. Connect the removed connectors to W6 P.C.Board.
5. Install the new A/C head assembly.
6. Hang on the height adjustment spring and, tighten the nut (A) as shown in figure 3-10-5.
7. Clean the surface of the A/C head.

#### Note :

Hex screw (B) is kept loose until finish the A/C Head height adjustment.

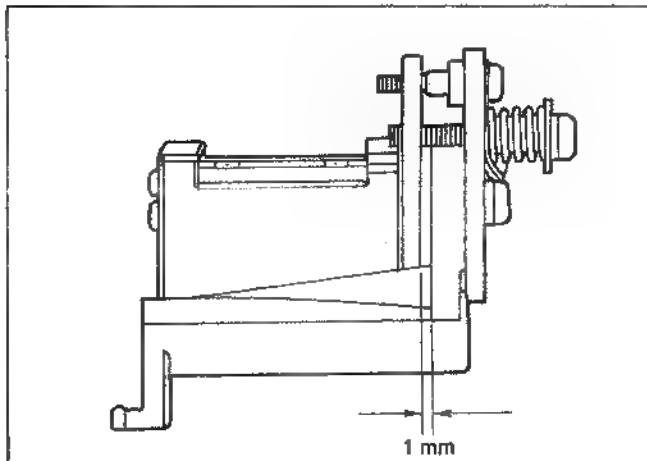


Fig. 3-10-4 A/C Head Assembly

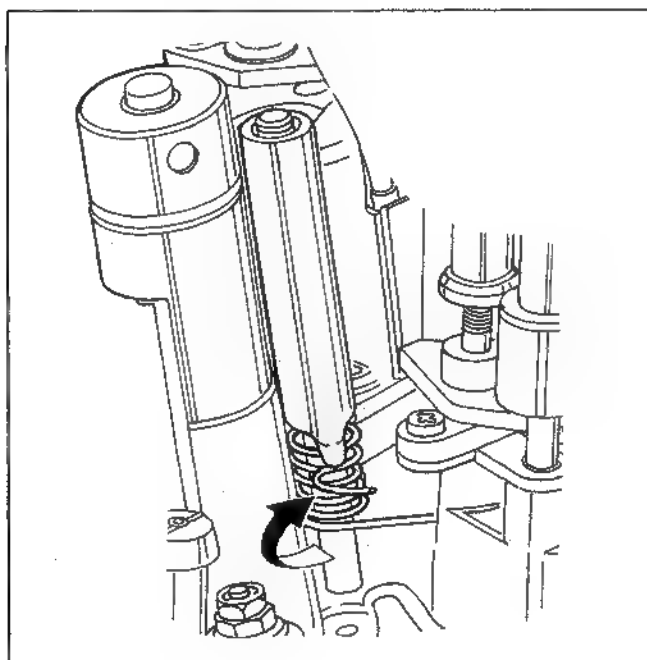


Fig. 3-10-5 Adjustment Spring

### 3-10-3. Mechanical Adjustment

#### \*Tools Required :

Alignment Tape  
Nut Driver (7mm) (VFK0676)  
Hex Wrench (VFK0326)

#### Purpose of each screws

A : Tilt Adjustment  
B : Fix for A/C Head Height  
C : Height Adjustment  
D : Coarse Azimuth Adjustment  
E : Spring Tension and Fine Azimuth Adjustment  
F,G : Fix for A/C Head Horizontal Position  
H : Horizontal Position Adjustment Hole

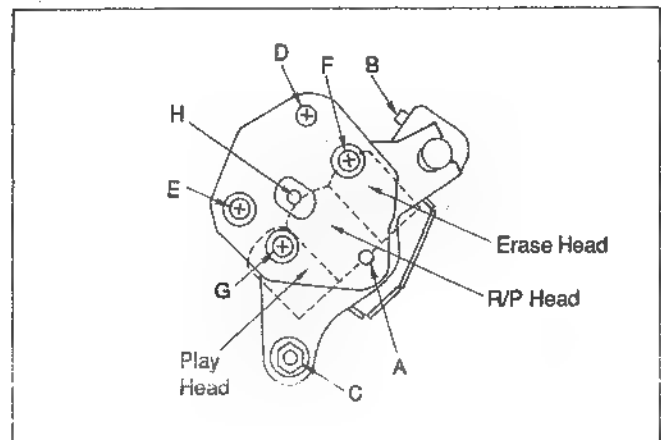
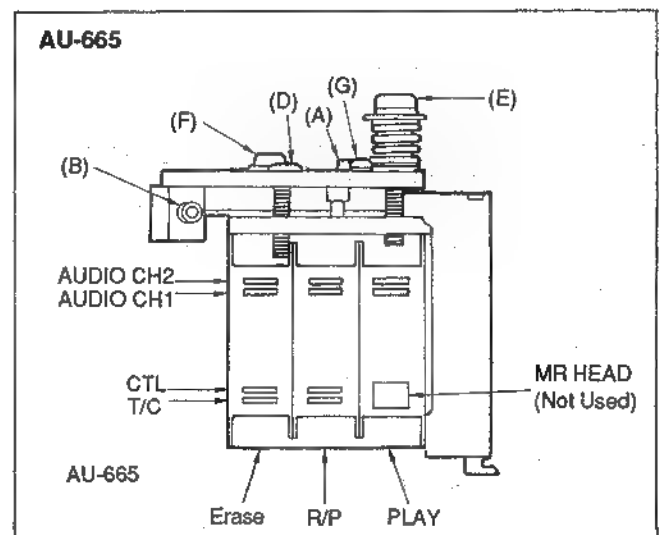
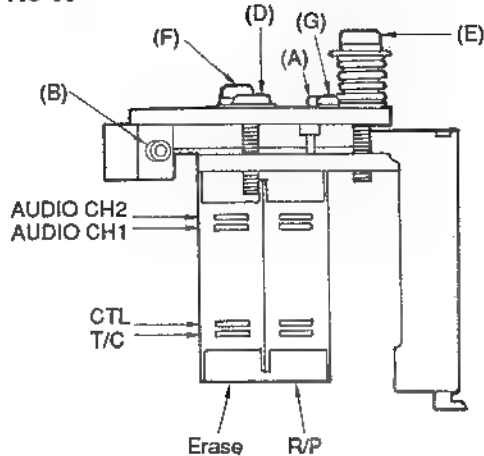


Fig. 3-10-6 A/C Head

Following figure shows A/C Head constructions for each models.



# **AU-65**



# **AU-63/62**

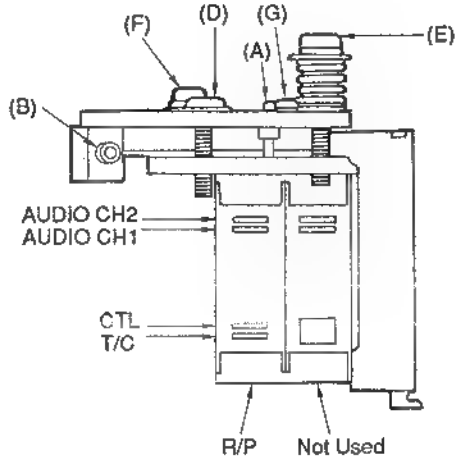


Fig. 3-10-7 A/C Head for Each Models

When adjust the A/C head assembly perform the following conditions.

- \*In order to keep the flat envelope, observe the RF envelope (Y or C) at the same time.
- \*In order to avoid the tape damage, always check that the tape curling does not occur at P5 and P6 post
- \*Head select switch on the pull out drawer is set to R/P HEAD position for AU-665 and disconnect P10 on AT POWER P.C.Board to stop the Auto Tracking function for AU-63.
- \*Follow the flow chart when adjust the A/C Head assembly as shown in figure 3-10-8.
- \*When adjust the audio level, use the following test points as shown in figure 3-10-9.

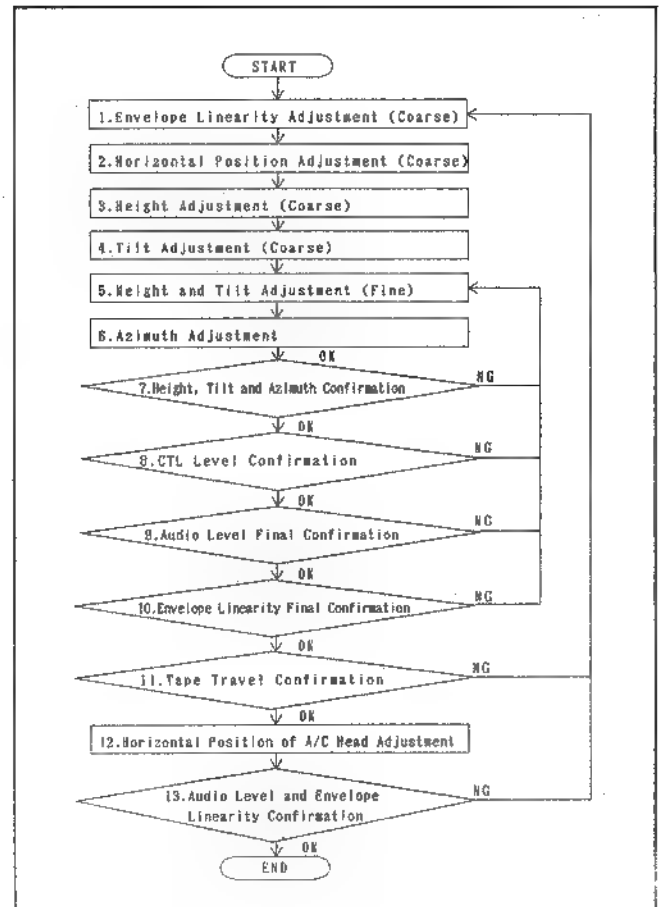


Fig. 3-10-8 A/C Head Adjustment Flow Chart

| Output Signal                   | P.C.Board      | Test Point | Remarks                                |
|---------------------------------|----------------|------------|--|
| Y (R/P Head)                    | W6 (MOD/DEM0D) | TP301      | also available WFM OUT for AU-665 only |
| C RF (R/P Head)                 | W6 (MOD/DEM0D) | TP701      |  |
| Head Switching                  | W5 (SERVO)     | TP7        | -----                                  |
| Linear Audio CH1 (R/P Head)     | W6 (AUD10)     | TP101      | also available AUDIO OUT               |
| Linear Audio CH2 (R/P Head)     | W6 (AUD10)     | TP301      |  |
| Linear Audio CH1 (Monitor Head) | W6 (AUD10)     | TP271      | for AU-665 only                        |
| Linear Audio CH2 (Monitor Head) | W6 (AUD10)     | TP471      |  |
| CTL Pulse                       | W5 (SERVO)     | TP109      | -----                                  |

Fig. 3-10-9 Test Point Chart



## 1) ENVELOPE LINEARITY ADJUSTMENT (COARSE)

Note :

Tape tension is completely adjusted.

1. Connect the scope CH1 to Y or C RF out (refer to Test Point Chart) and CH2 to TP7 on the W5 SERVO to trigger the scope.
2. Playback the linearity portion of the alignment tape.
3. In order to achieve the roughly flat envelope, tighten the nut (C) clockwise so that the CTL head touches the tape CTL track and servo is locked. At that time, make sure the RF envelope is maximized on the Tracking meter by using the Tracking VR.
4. Confirm that the tape is not curling at P5 and P6 post as shown in figure 3-10-10.
5. If the tape is curling at P5 and P6, readjust the A/C Head height by nut (c), or adjust the A/C Head Tilt by hex screw (A). (Do not adjust the P5 and P6 upper flange)

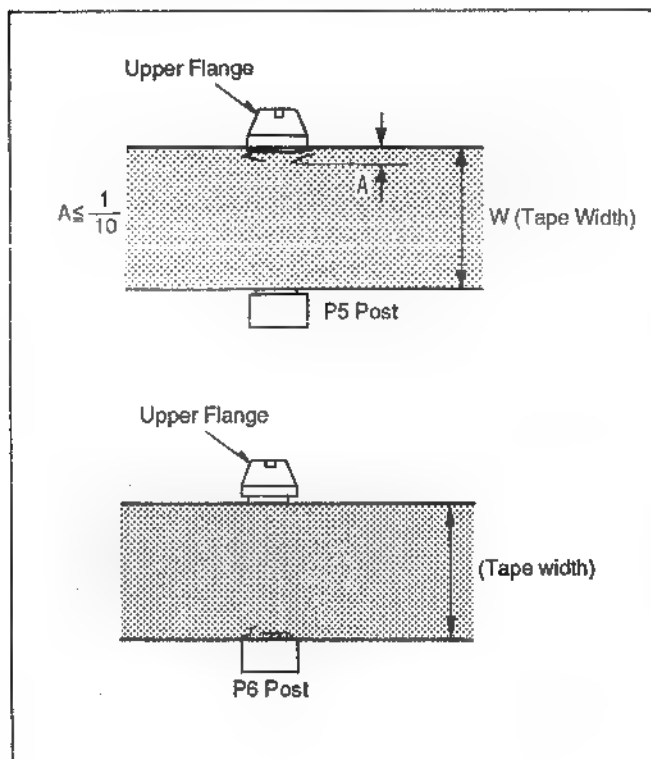


Fig. 3-10-10 Deforming Spec

## 2) HORIZONTAL POSITION ADJUSTMENT (COARSE)

1. Connect the scope CH1 to Y or C RF out (refer to Test Point Chart) and CH2 to TP7 on the W5 SERVO to trigger the scope.
2. Playback the linearity portion of the alignment tape and confirm that the Tracking VR is center detent position.
3. Loosen the 2 screws (F), (G) 1/4 of a turn counterclockwise and insert the eccentric screw driver into the hole (H) as shown in figure 3-10-11.
4. Turn the eccentric screwdriver and adjust the horizontal position of the A/C Head so that the RF envelope is maximum, on the Tracking meter on the front panel.

5. Alternately tighten 2 screws (F), (G) until both screws are tight.

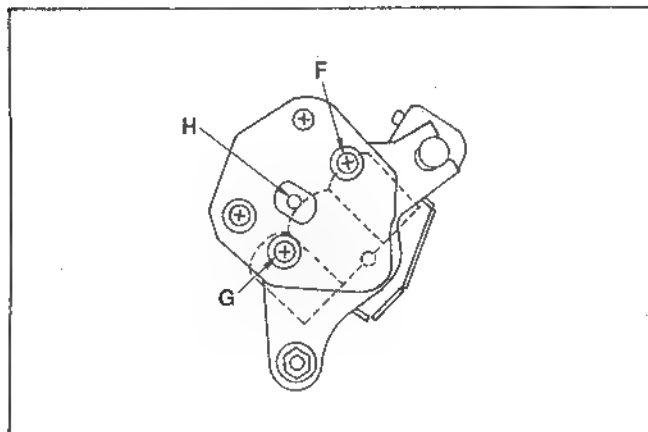


Fig. 3-10-11 Horizontal Position

## 3) HEIGHT ADJUSTMENT (COARSE)

1. Playback the 7.5KHz portion of the alignment tape.
2. Adjust the nut (C) so that the audio levels, CH1 and CH2 are maximized on the audio level meter on the front panel.

## 4) TILT ADJUSTMENT (COARSE)

1. Playback the 7.5KHz portion of the alignment tape.
2. Adjust hex (A) screw so that the CH1 and CH2 audio levels are increased maximum at the audio level meter on the front panel.

## 5) HEIGHT AND TILT ADJUSTMENT (FINE)

Note :

Observe the audio level, CH1 audio is reference for A/C Head mechanical adjustment. Because the CH2 audio track is sometimes edge damaged at P5 upper flange.

1. Connect the scope CH1 to TP101 and CH2 to TP301 on the W6 AUDIO P.C.Board.
2. Playback the 7.5KHz portion of the alignment tape.
3. In order to check the A/C Head height, gently press down the tape upper edge from the top (slight finger pressure) at A/C Head entrance side as shown in figure 3-10-12 and check the audio level.
4. If the audio level increases, turn the nut (C) counterclockwise slightly so that the audio level is increased as shown in figure 3-10-13.

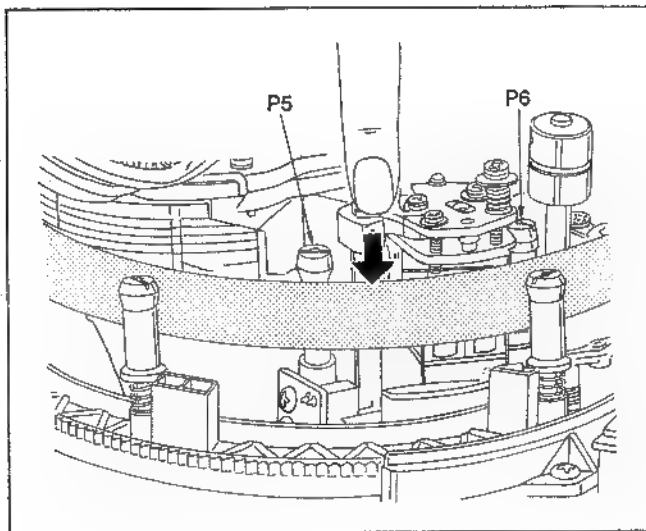


Fig. 3-10-12 A/C Head Height Check (1)

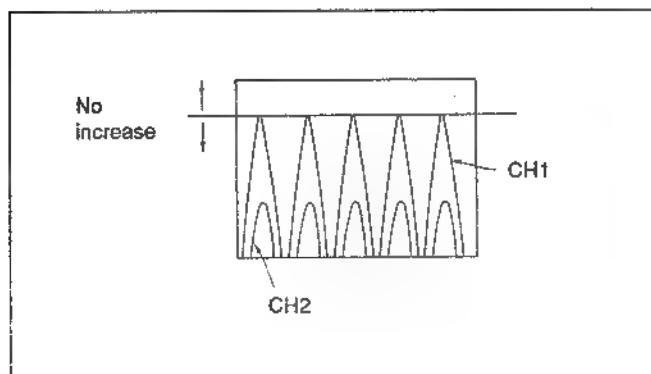


Fig. 3-10-13 Audio Level

5. Gently press up the tape lower edge from the bottom (by using the hex wrench) at A/C Head exit side as shown in figure 3-10-14 and check the audio level.
6. If the audio level increases, turn the nut (C) clockwise slightly so that the audio level is maximized as shown in figure 3-10-13.

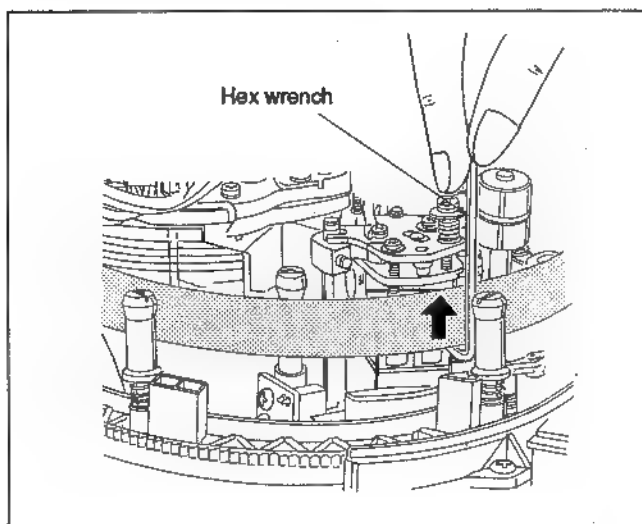


Fig. 3-10-14 A/C Head Height Check (2)

7. Tighten the hex screw (B).

**Note :**

When the hex screw (B) is tightened, audio azimuth will change. In this case, adjust 2 screws (D) and (E) to achieve a roughly same azimuth.

8. In order to check the A/C Head Tilt, gently press the tape upper edge from the side (slight finger pressure) at A/C Head entrance side as shown in figure 3-10-15 and check the audio level.
9. If the audio level is increased, turn the hex screw (A) counterclockwise slightly so that the audio level is increased maximum as shown in figure 3-10-13.
10. After adjustment of tilt, A/C Head height reconfirmation is necessary.

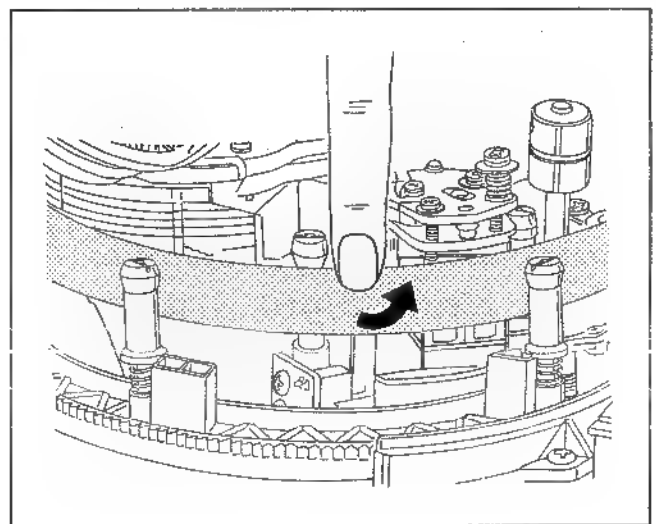


Fig. 3-10-15 A/C Head Tilt Check

**6) AZIMUTH ADJUSTMENT**

1. Connect the scope CH1 to TP101 and CH2 to TP301 on the W6 AUDIO P.C.Board.
2. Playback the 15KHz portion of the alignment tape.
3. Loosen screw (E) and adjust the screw (D) so that the CH1 and CH2 phase are the same as shown in figure 3-10-16 and 3-10-17.

for AU-65/63/62:  $\pm 15$  degree ( $\pm 2.78$  usec)  
for AU-665 :  $\pm 10$  degree ( $\pm 1.85$  usec)

4. Hold a maximum audio level and tighten the 2 screws with (D) and (E) slightly.
5. Confirm that the audio level is maximum.

**7) HEIGHT, TILT AND AZIMUTH CONFIRMATION**

1. Connect the scope CH1 to TP101 and CH2 to TP301 on the W6 AUDIO P.C.Board.
2. Playback the 7.5KHz portion of the alignment tape for check the height and Tilt.
3. Gently press down the tape upper edge from the top (slight finger pressure) at A/C Head entrance side as shown in figure 3-10-12 and check the audio level.

4. If the audio level is increased, turn the nut (C) counterclockwise slightly so that the audio level is increased.
5. Gently press up the tape lower edge from the bottom (by using the hex wrench or something) at A/C Head exit side as shown in figure 3-10-14 and check the audio level.
6. If the audio level is increased, turn the nut (C) clockwise slightly so that the audio level is maximized.
7. Gently press the tape upper edge from the side (slight finger pressure) at A/C Head entrance side as shown in figure 3-10-15 and check the audio level.
8. If the audio level is increased, turn the hex screw (A) counterclockwise with small order so that the audio level is increased maximum as shown in figure 3-10-13.
9. Playback the 15KHz portion of the alignment tape.
10. Confirm that the audio CH1 and CH2 phase is same azimuth.
 

for AU-65/63/62:  $\pm 15$  degree ( $\pm 2.78$  usec)  
for AU-665 :  $\pm 10$  degree ( $\pm 1.85$  usec)
11. If it is not, loosen the screw (E) and adjust the screw (D) so that the 2 channels audio phase is same as shown in figure 3-10-16 and 3-10-17.
12. Hold a same audio phase and maximum audio level and alternately tighten up the 2 screws (D) and (E) until both screws are tight.
13. Confirm that the audio level is maximum.

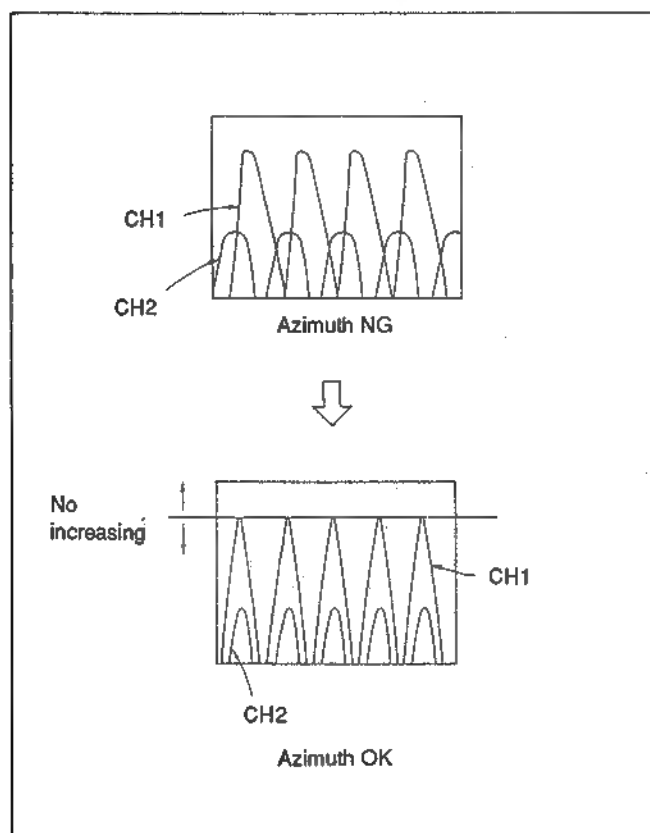


Fig. 3-10-16 Audio Azimuth (1)

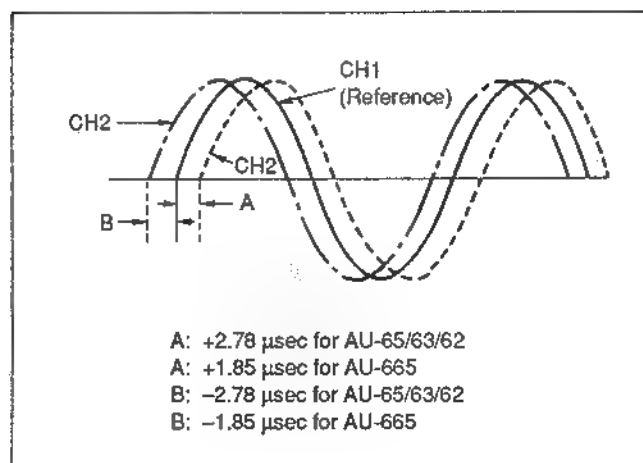


Fig. 3-10-17 Audio Azimuth (2)

#### 8) CTL LEVEL CONFIRMATION

1. Connect the scope TP109 on the W5 SERVO P.C.Board.
2. Playback the 7.5KHz portion of the alignment tape.
3. Confirm that the CTL pulse is more than 1.2Vp-p as shown in figure 3-10-18.
4. If it is not, readjust the nut (C) and hex screw (A).
5. After readjustment, audio level confirmation is necessary.

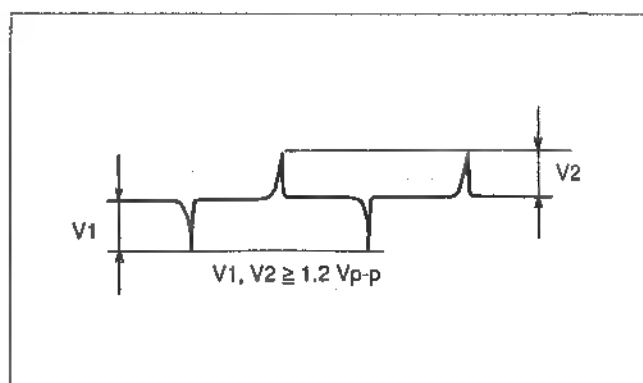


Fig. 3-10-18 CTL Pulse

#### 9) AUDIO LEVEL FINAL CONFIRMATION

1. Connect the scope CH1 to TP101 and CH2 to TP301 on the W6 AUDIO P.C.Board.
2. Playback the 7.5KHz portion of the alignment tape.
3. Gently press up and down on the tape edge at A/C Head entrance side and A/C Head exit side. (refer to height and Tilt adjustment)
4. If audio level increases, readjust the nut (C) or hex (A) screw as needed.
5. Pull the Audio PB VR on the front panel and set the audio level 0 dB by adjusting the Audio PB VR.
6. Gently tap the supply tension arm and confirm the audio level as shown in figure 3-10-19.

7. If the audio level is increased more than +0.3dB at Audio Meter, readjust the hex screw (A).

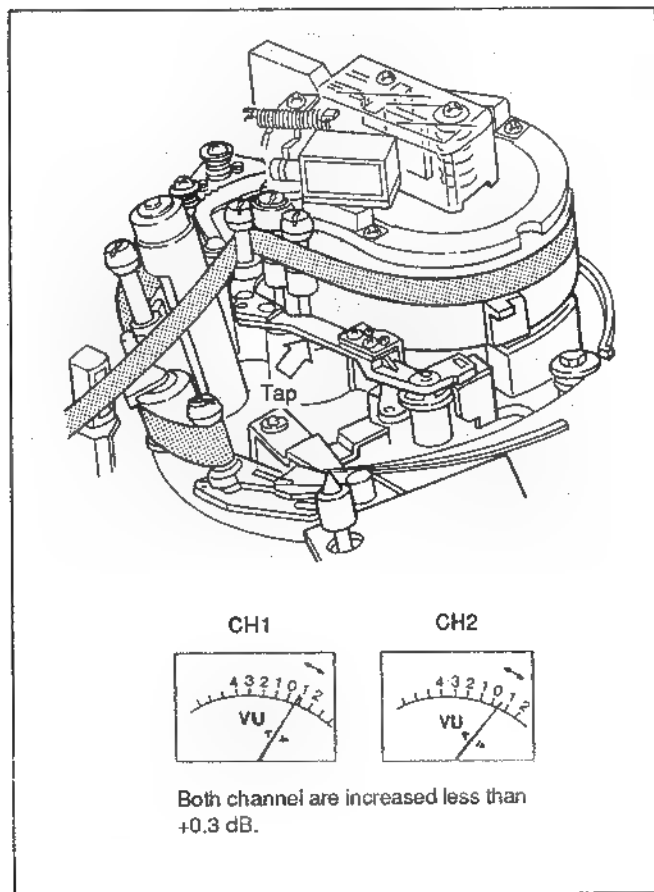


Fig. 3-10-19 Audio Level Final Check

Following steps are monitor head tilt confirmation for AU-665 only;

8. Supply a 10KHz sinewave to AUDIO IN and record the signal.
9. Set the HEAD SELECT switch to TAPE position.
10. Pull the Audio REC VR on the front panel and set the audio level 0dB by adjusting the Audio REC VR.
11. During recording, gently tap the supply tension arm and confirm that the Audio Meter indication is within +/-1dB.
12. If it is not, readjust the hex screw (A).

#### 10) ENVELOPE LINEARITY FINAL CONFIRMATION

1. Connect the scope CH1 to Y or C RF out (refer to Test Point Chart) and connect the scope CH2 to TP7 on the W5 SERVO P.C.Board for trigger the scope.
2. Playback the linearity portion of the alignment tape.
3. Confirm that the RF envelope is within specification as shown in figure 3-10-20.
4. If the RF envelope exit side is compressed, slightly adjust the P5 upper flange to make a flat envelope and confirm the audio level again.

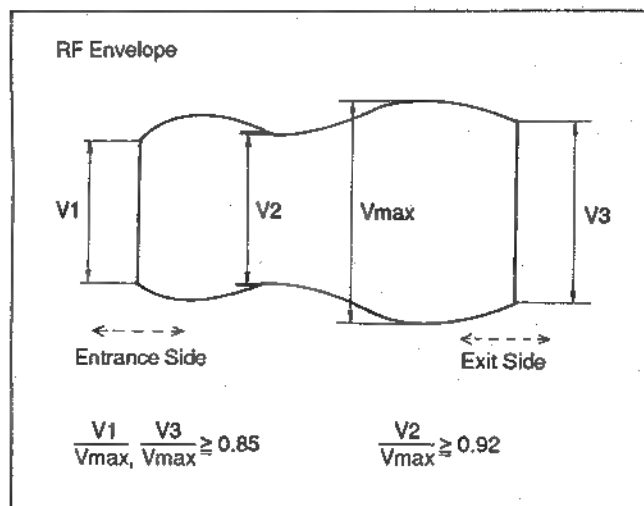


Fig. 3-10-20 Envelope Specification

#### 11) TAPE TRAVEL CONFIRMATION

1. After the A/C head adjustment has been completed, observe the lower flange of the P6 post during playback. The bottom edge of the tape should just touch the lower flange of the P6 post. If not, first of all confirm the A/C Head height and tilt.

##### Note:

When the P5 and P6 post have to be readjusted due to tape curling or wrinkling, always recheck the playback RF envelope, A/C head height, tilt, and azimuth.

2. After confirmation or adjustment of the P6 post, place the unit in the reverse playback mode (SHTL x-1). Make sure that the bottom edge of the tape just touches the lower flange of the P6 post without tape curling. If the tape curling occurs at the bottom flange of the P6 post, adjust the tilt of A/C Head refer to page 3-27. However, if the curling doesn't cancel at the P6 post by adjusting A/C Head tilt, raise both P8 and P9 post up slightly, then raise the P7 post until the tape curling disappears.
3. In the SHTL x1 playback mode, if tape curling is seen at the lower edge of the P8 post, then raise the P9 post as needed.
4. In all modes (SHTL x1 to x32, SHTL x-1 to x-32), tape curling should not occur at the flanges of the P6, P7, P8, and P9 posts. Readjust each post flange as needed if tape curling should occur.
5. Position P11 and P12 so that the tape path is in the middle of these post.

##### Note:

Make sure that all hex screws on the post are tightened securely.

## 12) HORIZONTAL POSITION OF A/C HEAD ADJUSTMENT

### \*Tools Required :

Eccentric Screwdriver (VFK0357)

Alignment Tape

### Note:

Before this adjustment is performed, envelope output, A/C head height and azimuth, and TRACKING FIX ADJUSTMENT should be confirmed or completed. (Refer to TRACKING FIX ADJ. of electrical adjustment)

### TRACKING FIX ADJUSTMENT (Electrical)

Board : W5 SERVO

Test Point : TP3

TP110

Adjustment : VR3

#### <For AU-65/665>

1. Supply a 75% component color bar to COMPONENT 2 INPUT on the rear panel.
2. Set a HEAD SELECT to R/P position and TAPE/EE to EE position.
3. Set a Tracking VR to center detent position.
4. Make a recording and then playback the just recorded portion.
5. Connect a scope CH1 to TP3 and CH2 to TP110.
6. Adjust VR3 so that the  $T = 0 \pm 100 \mu\text{sec}$  as shown in figure 3-10-21.

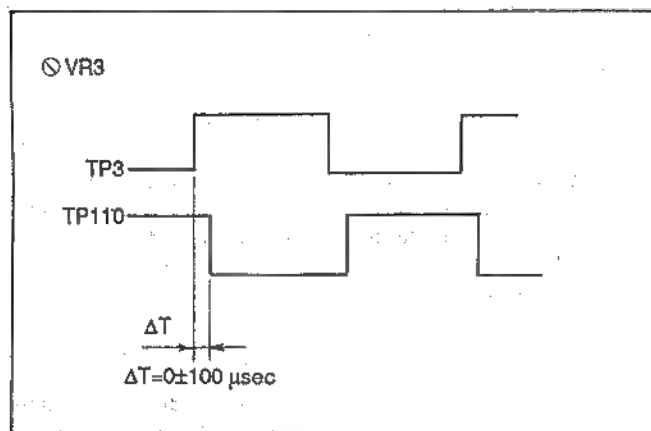


Fig. 3-10-21 Tracking Fix Adj. (AU-65/665)

#### <For AU-63>

1. Playback the color bar portion of the alignment tape.
2. Disconnect the P10 connector on the AT Power P.C.Board.
3. Connect a scope CH1 to TP3 and CH2 to TP110.
4. Set the sweep range of scope so that the "A" width becomes 9 lines.
5. Adjust VR3 so that the  $T = 3 \pm 0.1$  lines as shown in figure 3-10-22.
6. Connect the P10 connector to the AT Power P.C.Board.

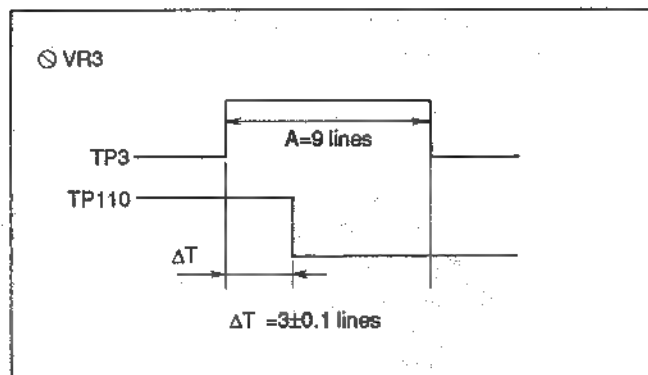


Fig. 3-10-22 Tracking Fix Adj. (AU-63)

#### <For AU-62>

1. Set the Tracking VR to center detent position.
2. Playback the color bar portion of alignment tape.
3. Connect the scope CH1 to TP3 and CH2 to TP110.
4. Adjust VR3 so that the  $T = 0 \pm 100 \mu\text{sec}$  as shown in figure 3-10-23.

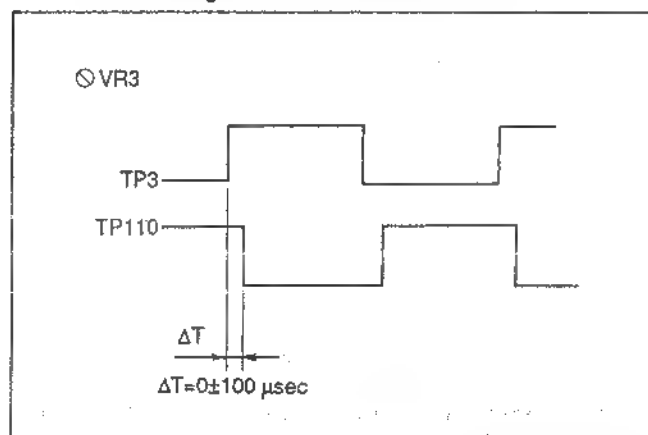


Fig. 3-10-23 Tracking Fix Adj. (AU-62)

### HORIZONTAL POSITION ADJUSTMENT (Mechanical)

1. Insert the alignment tape, and playback the Field Skip portion.
2. Set the tracking control on the front panel to the center detent position.
3. Set the HEAD SELECT to R/P for AU-665 or disconnect the P10 on the AT POWER P.C.Board for AU-63.
4. Connect the scope CH1 to TP301 on the W3 MODULATION & DEMODULATION P.C.Board and CH2 to TP301 on the W6 AUDIO P.C.Board.
5. Confirm that the skip portion is in the same position.
6. If not, loosen the 2 screws (F) and (G) a 1/4 of a turn and insert the eccentric screw driver into hole (H) as shown in figure 3-10-24.
7. Roughly adjust the A/C head assembly by turning the eccentric screwdriver so that the skip portion is in the same position as shown in figure 3-10-25.
8. If the skip portion is shifted causing by CTL head incorrect position, readjust the A/C head. (After that, audio level confirmation is necessary.)

9. Playback the linearity portion of the alignment tape.
10. Confirm that the envelope level is maximized at Tracking VR detent position.
11. If it is not, slightly adjust the A/C Head assembly by turning the eccentric screwdriver so that the Y RF envelope is maximized.
12. Alternately tighten the 2 screws (F) and (G) until both screws are tight.
13. Connect the P10 to AT POWER P.C.Board for AU-63.

**Note:**

After this adjustment, confirm the audio height tilt and azimuth.

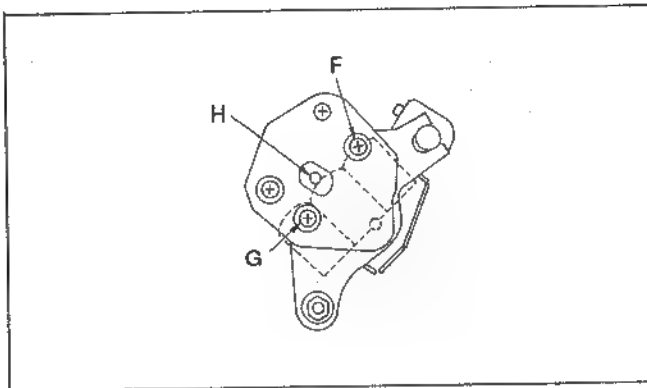


Fig. 3-10-24 Horizontal Position

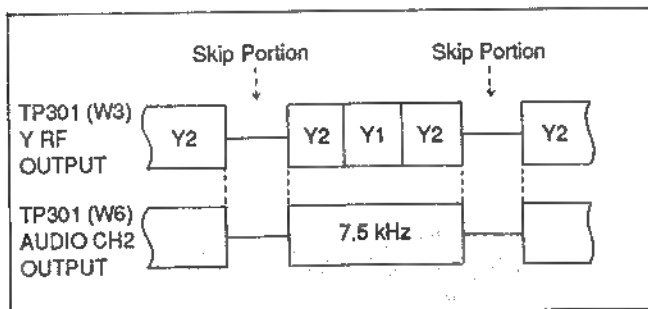
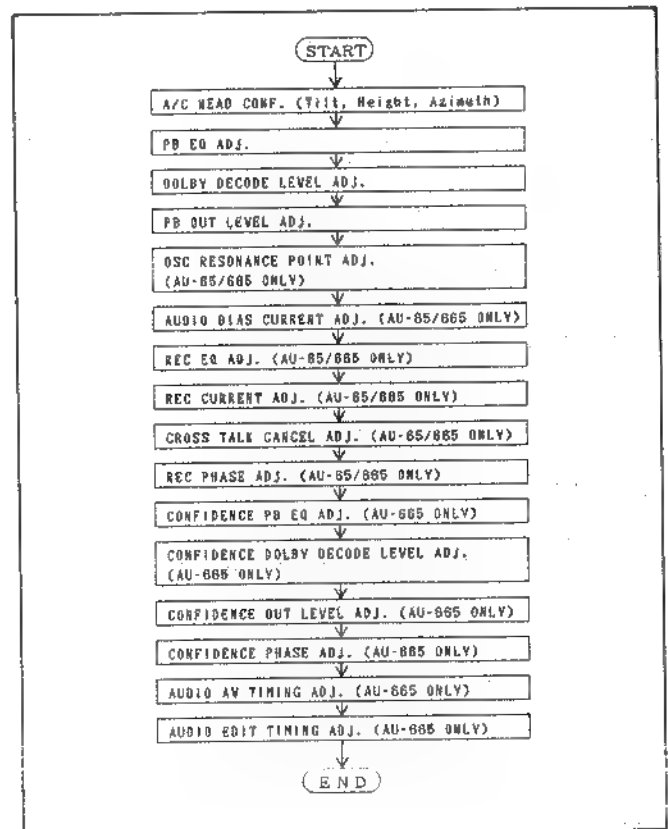


Fig. 3-10-25 Skip Portion

### 3-10-4. Electrical adjustment

After replacing, perform the following electrical adjustment.



### 3-11. FULL ERASE HEAD REPLACEMENT AND ADJUSTMENT

#### 3-11-1. Replacement

##### Removal

1. Unsolder 2 leads on the erase head as shown in figure 3-11-1. (for AU-65/665)
2. Remove the 2 screws (A) and remove the full erase head assembly. (Fig. 3-11-1)
3. Remove the screw (B) and remove the head.

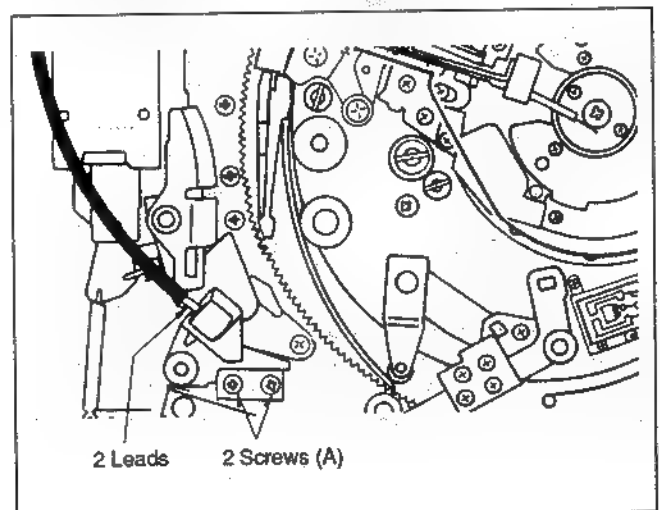


Fig. 3-11-1 Full Erase Unit

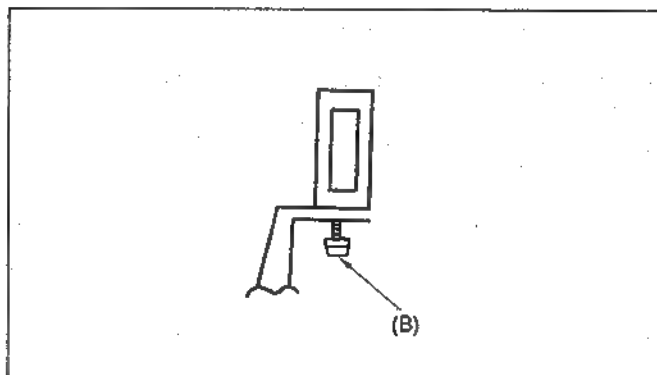


Fig. 3-11-2 Full Erase Unit

### Installation

1. After installing the head, perform the following adjustments.

### 3-11-2. Adjustment

1. Check and adjustments according to the FULL ERASE CURRENT ADJUSTMENT procedure.

## 3-12. CAPSTAN HOUSING UNIT REPLACEMENT AND ADJUSTMENT

### 3-12-1. Replacement

#### Removal

1. Remove the B1 SYSTEM CONTROL and B2 TCG/TCR (option for AU-65/63/62) P.C.Board from front-sub panel as shown below.

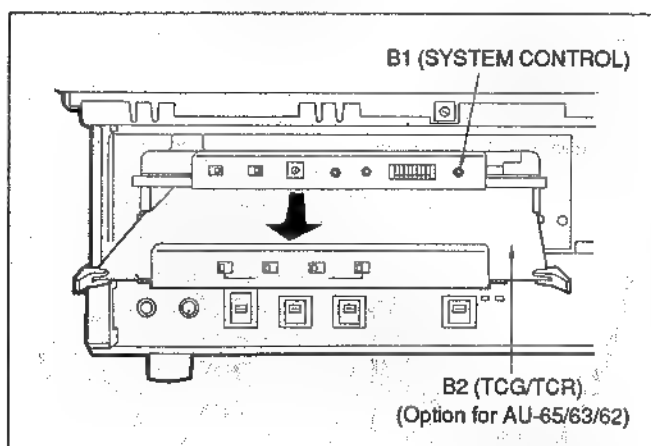


Fig. 3-12-1. B1 and B2 unit Removal

2. Remove the bottom panel.
3. Remove the 2 screws (A) and remove the Capstan Motor Cover (B) as shown in figure 3-12-2.
4. Remove the 3 screws (C) and pull to remove the rotor (E).

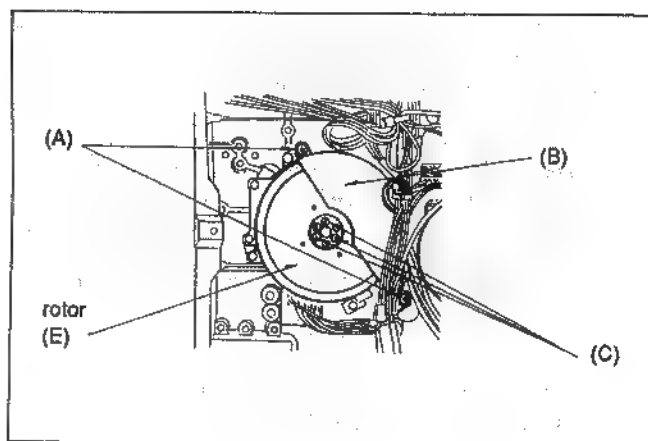


Fig. 3-12-2 Capstan Motor

5. Remove the 3 screws (F) and remove the Capstan Housing unit (G) from bottom side as shown in figure 3-12-3.

#### Note:

How to easily remove the Capstan rotor unit (E). Since the Capstan rotor unit (E) is hardly attracted by the magnet, please make the following steps to remove it.

1. Prepare the long size 3 screws as a same type's screw (C).
2. Install the long size 3 screws to screw (C) holes and the Capstan rotor unit (E) by tightening the 3 screws.
3. Then remove the Capstan rotor unit (E).

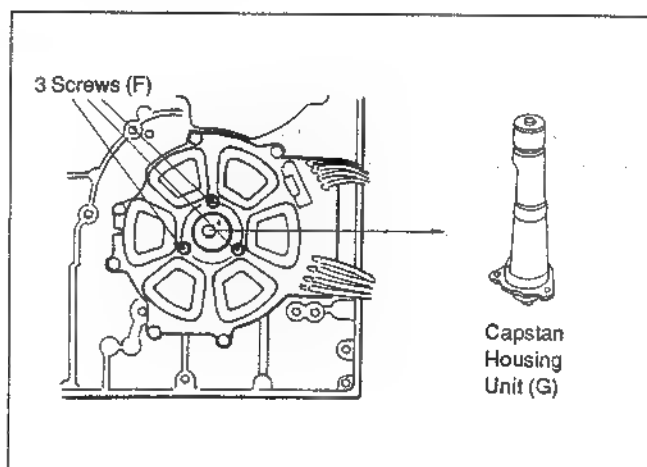


Fig. 3-12-3 Capstan Housing Unit

### Installation

1. Reverse the previous steps in reverse order.

### 3-12-2. Adjustment

1. Check adjustments according to the TRACKING FIX ADJUSTMENT procedure.

### 3-13. PINCH ROLLER SOLENOID REPLACEMENT AND ADJUSTMENT

#### 3-13-1. Replacement

##### Removal

1. Remove the bottom panel and disconnect the connector (P405) on the MECH. INTERFACE CIRCUIT P.C. Board.

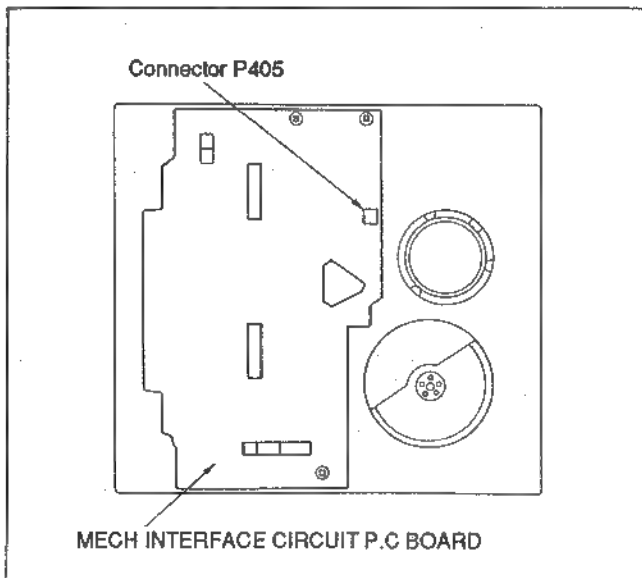


Fig. 3-13-1 Location of Connector P405

2. Remove the 3 screws (A) as shown in figure 3-13-2.
3. Remove the pinch solenoid.

##### Installation

1. Follow the removal steps in reverse order.

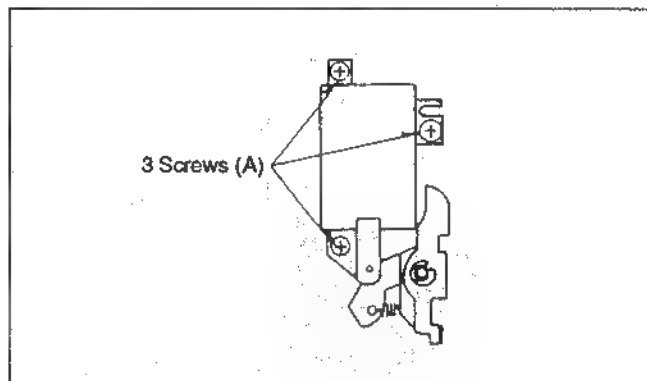


Fig. 3-13-2 Pinch Roller Solenoid

#### 3-13-2. Adjustment

##### \*Tools Required:

- Eccentric Screwdriver (VFK0358)
- Dummy Plug 1 (VFK0361)
- Fan Type Tension Gauge (VFK66)

1. Remove the front loading (CARRIAGE) unit and connect the Dummy Plug 1 (VFK0361) into to P406.
2. Play back a tape and measure the clearance (B) as indicated in figure 3-13-3. Verify that it is  $1.3\text{mm} \pm 0.2\text{mm}$ .
3. If not, loosen the 3 screws (A) (figure 3-13-3) and insert the eccentric screwdriver into hole (C).
4. Adjust the Pinch roller solenoid position with the eccentric screwdriver so that the clearance (B) is  $1.3\text{mm} (\pm 0.2\text{mm})$ .
5. Tighten the 3 screws (D).
6. Insert a work cassette and play back the tape.
7. Insert a 1.2mm thickness gauge to clearance (B).
8. Place the fan type tension gauge so that it's tip contacts the position (A) as shown in figure 3-13-3.
9. Push the tension gauge in the direction indicated by arrow Y in figure 3-13-3.
10. Confirm that the placed thickness gauge is dropped when the tension gauge reading is  $1900 \pm 100$  grams.
11. If it is not change the position of the spring as shown in figure 3-13-3.

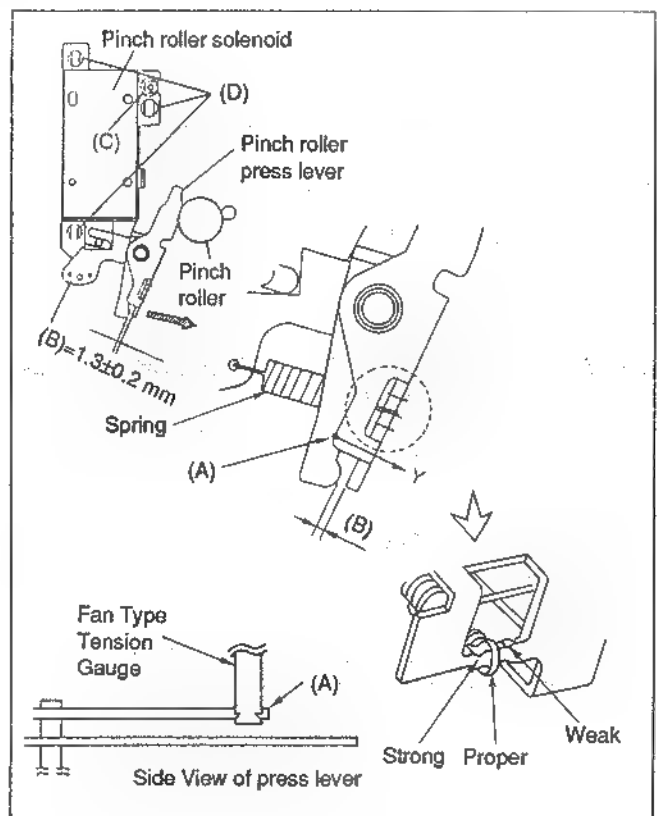


Fig. 3-13-3 Pinch Roller



### 3-14. PINCH PRESS LEVER REPLACEMENT AND ADJUSTMENT

#### REMOVAL

1. Remove the pinch solenoid (refer to pinch solenoid replacement section).
2. Remove the spring as shown in figure 3-14-1.
3. Remove the E-ring and washer as shown in figure 3-14-1.
4. Remove the Pinch Press Lever.

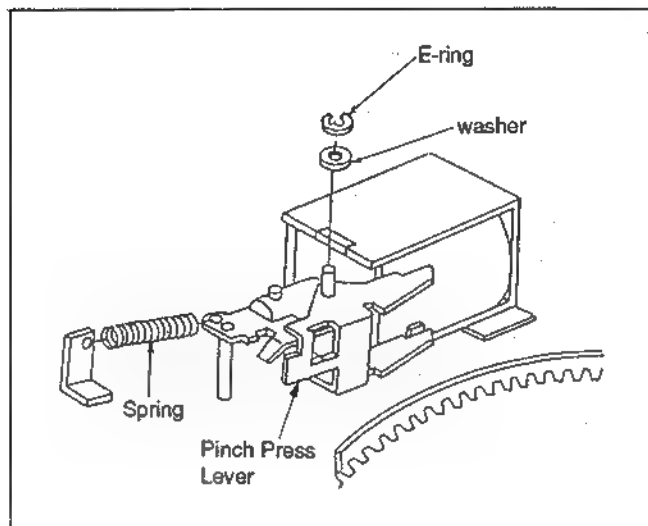


Fig. 3-14-1 Pinch Press Lever

#### INSTALLATION

1. Install the new Pinch Press Lever and follow the removal steps in reverse order.

#### ADJUSTMENT

Refer to PINCH ROLLER SOLENOID ADJUSTMENT

### 3-15. TIMER ROLLER REPLACEMENT AND ADJUSTMENT

#### 3-15-1. Replacement

\*Tool required :  
Post Driver (VFK0293)

#### Removal

1. Remove the front loading unit (CARRIAGE).
2. Remove the 4 screws (A) and remove Sub-loading cover assembly.

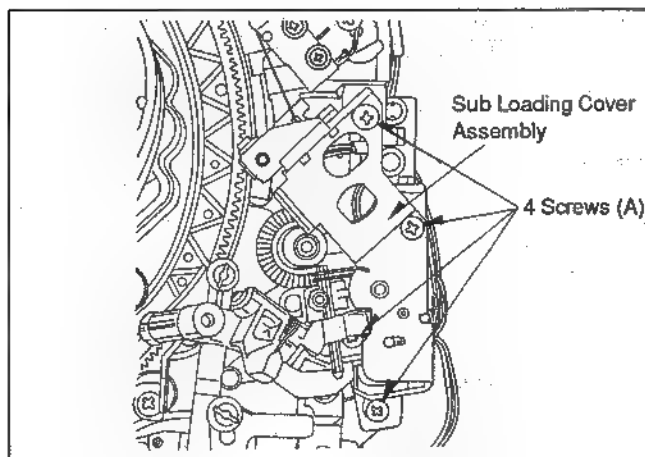


Fig. 3-15-1 Sub-loading Cover Removal

3. Remove the 3 screws (B) and remove Turn Roller Lifter

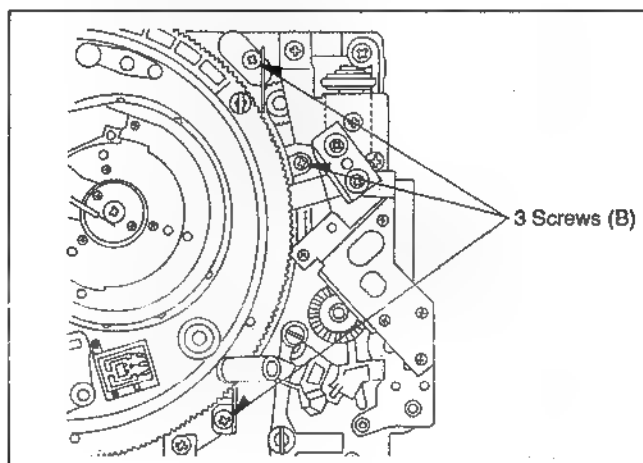


Fig. 3-15-2 Turn Roller Lifter

4. Remove the 2 screws (C) and remove TR Sensor P.C.Board.

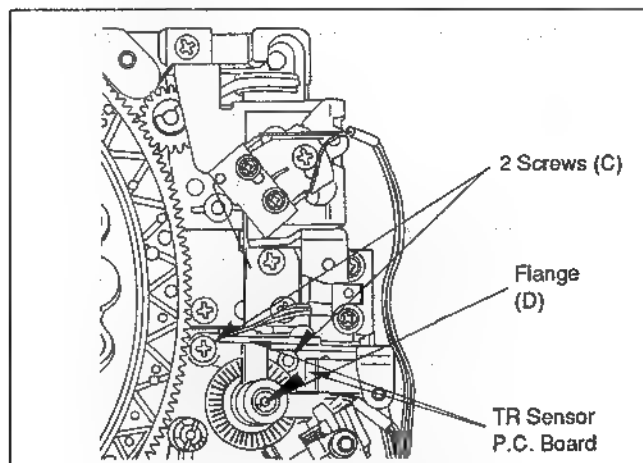


Fig. 3-15-3 Timer Roller

5. Loosen the flange (D) and remove (Do not loosen the Hex Screw) then remove the bearing (E) and collar (F). (Use a tweezer so that it is easy to remove)
6. Remove the timer roller unit. After removing, remove the bearing (G).

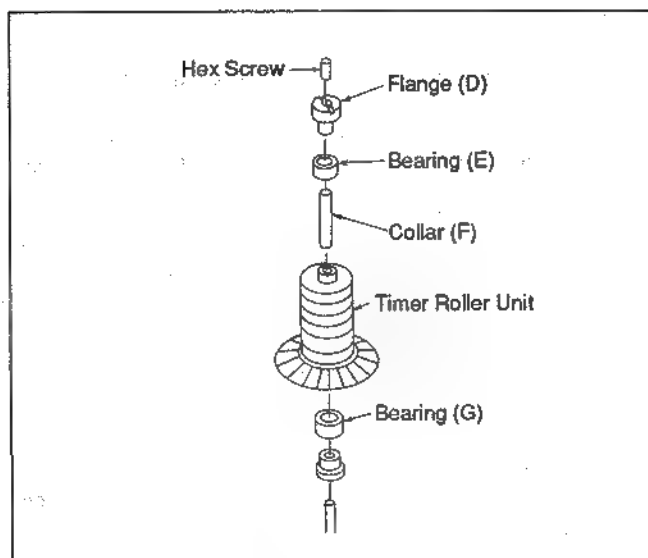


Fig. 3-15-4 Construction of TR

#### Installation

1. Insert the bearing (G) before install the Timer Roller unit.
2. Install the Timer Roller unit, after that, insert the collar (F) and bearing (E) to the Timer Roller unit.
3. Insert the flange (E) to the Timer Roller unit. (Do not tighten the hex screw)
4. After the installation, perform the following adjustments.

#### 3-15-2. Adjustment

##### 1) Timer Roller height Adjustment

#### \*Tool Required:

Post Driver (VFK0293)

1. Play back the MPL90 tape to make sure the tape edges do not come into the grooves on the timer roller in any mode.
2. If the above requirement is not satisfied, loosen Hex-Screw (L) and turn flange (K) for height adjustment.
3. Finally, be sure to tighten up Hex-Screw (L).

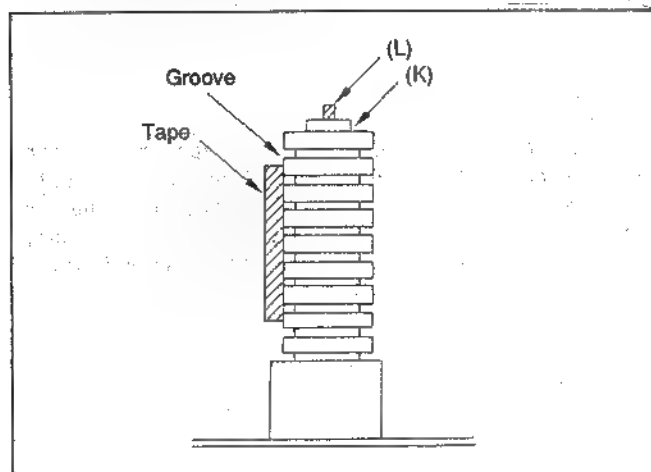


Fig. 3-15-3 Timer Roller Height

#### 2) Timer Roller Position Adjustment

#### \*Tools required:

Eccentric Screwdriver (VFK0358)

Dual Channel Oscilloscope

1. Connect the scope CH1 to TP202 (W5) and CH2 to TP201 (W5) on the servo P.C.B.
2. Playback the color bar portion of the alignment tape.
3. Loosen the 2 screws (C), as shown in figure 3-15-4.
4. Insert the eccentric screwdriver into hole (D) (figure 3-15-4).
5. Turn the eccentric screwdriver until the two waveforms are 90 degrees apart  $A=B \pm 10\%$  as shown in figure 3-15-5.
6. Tighten the 2 screws (C).

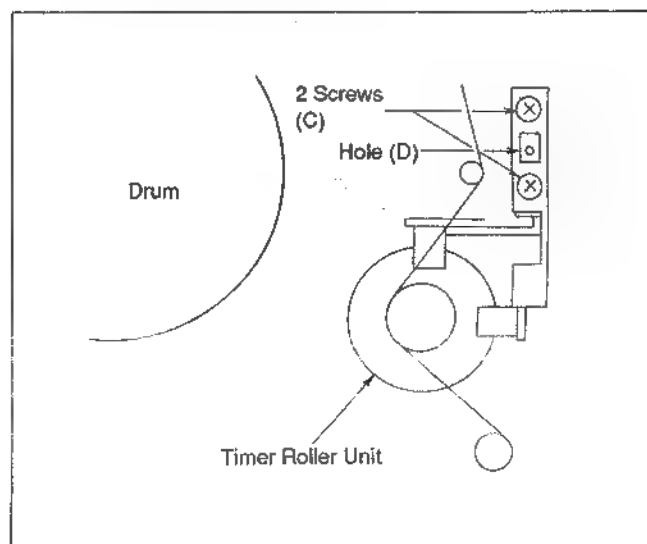


Fig. 3-15-4 Timer Roller

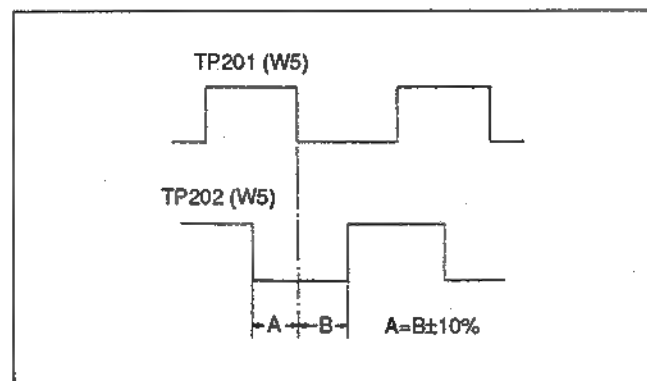


Fig. 3-15-5 Timer Roller Phase

### 3-16. POST ROLLER UNIT REPLACEMENT AND ADJUSTMENT

#### 1) POST ROLLER UNIT REPLACEMENT

**Note :**

When you replace a Post roller unit, install one at a time, and optimize its position. (Before replacing any more)

**REMOVAL**

1. Remove the front loading unit.
2. Only turn the upper flange counterclockwise and remove the upper flange of the post. (using post driver outer sleeve) Do not loose the hex screw when the upper flange is removed as shown in figure 3-16-1.
3. Remove the post roller unit (B) (Be sure not to lose the post spring (D) as shown in figure 3-16-2.

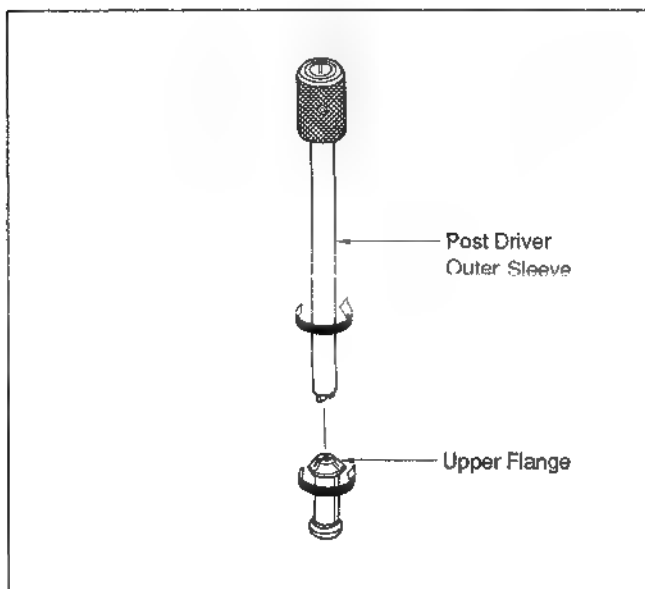


Fig. 3-16-1 Flange Removal

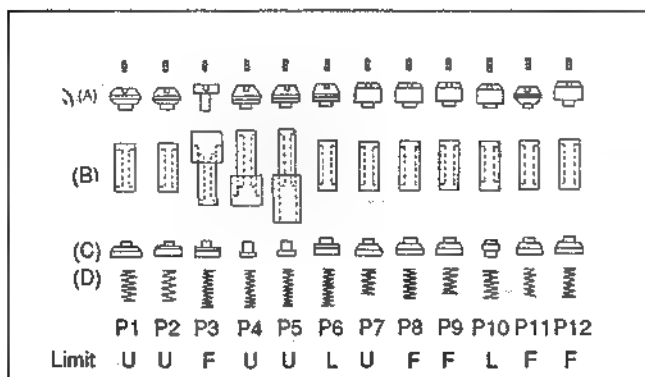


Fig. 3-16-2 Each Post Rollers

#### INSTALLATION

1. Install new Post Roller. (Be sure not to make a damaging or scratching to the Post Roller)
2. Install the upper flange (A) to the original position. (Do not loosen or tighten the hex screw)
3. Clean the post.
4. Play back the blank cassette and check tape travel. Then adjust the RF envelope linearity.

**Note 1 :**

P3 and P4 will have to be replaced together. (They can be adjusted together)

**Note 2 :**

When replacing the posts, do not remove all posts at the same time. (Only P3 and P4 can be replaced together)

**Note 3 :**

In order to ease linearity adjustment, always check the RF envelope after replaced each post.

#### 2) RF ENVELOPE LINEARITY ADJUSTMENT

**\*Tools Required :**

- Alignment tape
- Post height fixture (VFK0363)
- Mechanical Neutral Adjustment Plate (VFK0352)
- Post Driver (VFK0293)
- Hex Wrench (1.27mm)

#### GENERAL INSTRUCTIONS

The objectives of this adjustment are follows.

1. To insure smooth tape travel through the entire tape path without tape damage.
2. To obtain good envelope linearity of tape among all machines.

**IMPORTANT NOTICE :**

When adjust the envelope linearity of AU-63, make sure that the connector P10 on the AT POWER P.C.Board is disconnected to stop the Auto Tracking function.

#### FIRST STEP

Play back a blank or pre-recorded tape and observe the tape path. Pay careful attention to all posts and make sure that tape curling, curling or overriding on the post flanges does not occur, use an inspection mirror for closer observation.

## SECOND STEP

If no tape damage occurs, then the alignment tape may be played back, and the RF envelope checked with an oscilloscope. The RF envelope should be flat. Envelope drop off is most likely to occur at the entrance and exit point (Head Switching point) of tape travel around the drum. This is shown in figure 3-16-3 and careful attention should be paid to these points.

Figure 3-16-4 shows the recommended sequence of adjustments in flow chart form.

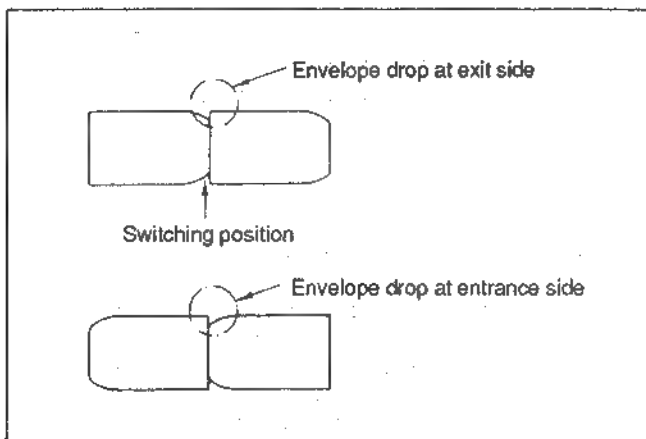


Fig. 3-16-3 Envelope Output

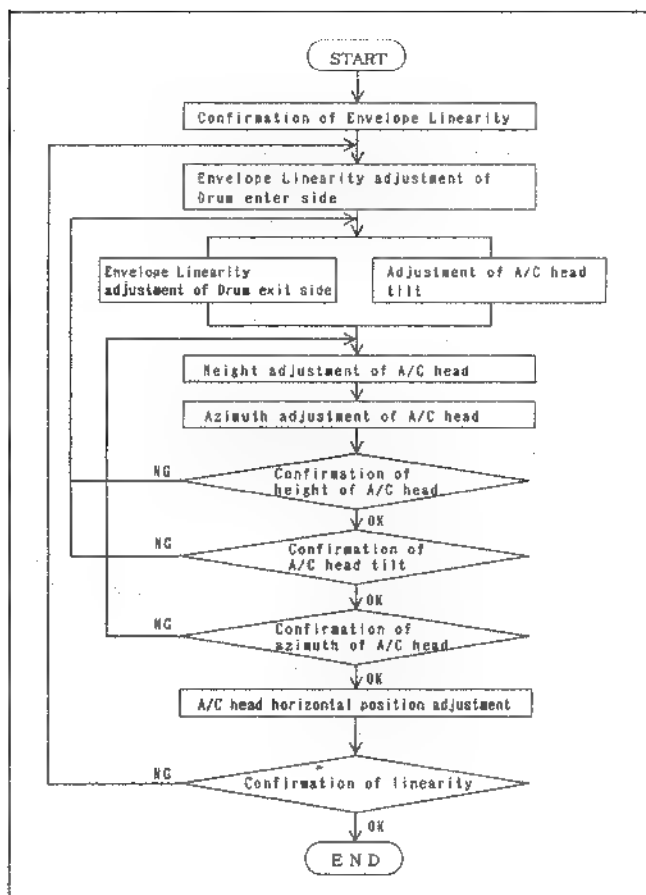


Fig. 3-16-4 Flow Chart

## POST CONSTRUCTION

Figure 3-16-5 shows post construction.

The hex (set) screw in the center of the top of each post should be loosened with slightly before adjusting each post. When adjusting the post height, turn upper flange only. After making a flat envelope, hold a upper flange position and tighten up the hex screw. At that time upper flange is also tightened.

After setting the post height, make sure that no change in RF envelope when the hex screw is tightened.

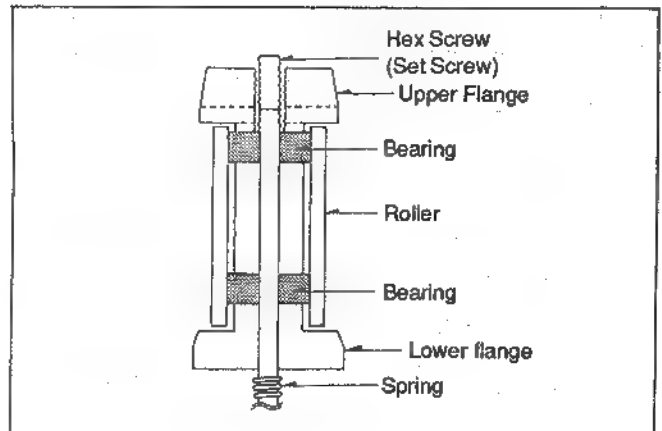


Fig. 3-16-5 Post Construction

Basically, Post Roller is positioned to original height after replacing (as long as, the hex screw is not misadjusted). However, in order to avoid the tape damage in Loading and Unloading mode, confirm that the height of the P1, P2, P11 and P12 posts are set to specified height, using MECH. plate and height fixture (VFK,363).

In order to do this, remove the cassette carriage unit, and install the mechanical neutral adjustment plate over the reel tables. Then place the post height fixture (VFK0363) on the Mechanical Neutral Adjustment Plate as shown in figure 3-16-6. (thumbscrews of neutral plate can be removed as needed) The upper and lower flanges of the P1, P2, P11 and P12 post should be touch the upper and lower surface of fixture as shown in figure 3-16-6. If these posts do not touch the surface, adjust the post height as needed.

When adjust the envelope linearity, use the following test points as shown in figure 3-16-8.

| Output Signal                   | P.C.Board      | Test Point | Remarks                                      |
|---------------------------------|----------------|------------|--|
| Y RF (R/P Head)                 | W3 (MOD/DEMCD) | TP301      | also available<br>VFM OUT for<br>AU-665 only |
| C RF (R/P Head)                 | W3 (MOD/DEMCD) | TP701      |  |
| Head Switching                  | W5 (SERVO)     | TP7        | -----  |
| Linear Audio CH1 (R/P Head)     | W6 (AUDIO)     | TP101      | also available<br>AUDIO OUT                  |
| Linear Audio CH2 (R/P Head)     | W6 (AUDIO)     | TP301      |  |
| Linear Audio CH1 (Monitor Head) | W6 (AUDIO)     | TP271      | for AU-665 only                              |
| Linear Audio CH2 (Monitor Head) | W6 (AUDIO)     | TP471      |  |
| CTL Pulse                       | W5 (SERVO)     | TP109      | -----  |

Fig. 3-16-8 Test Points Chart

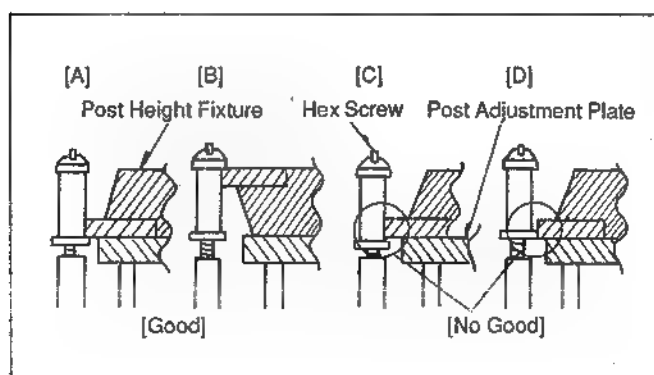


Fig. 3-16-6 Post Height Preadjustment

#### ENTRANCE LINEARITY ADJUSTMENT

1. Remove the cassette carriage unit, disconnect the P406 from the unit and connect the dummy plug (1) to P406. Put the alignment tape over the reel table and place the unit in the loading mode. Connect the scope to Y or C RF out (refer to Test Points Chart). Use TP7 on the SERVO P.C.Board (W5) to trigger the scope.
2. Playback the linearity portion of the alignment tape.
3. In order to avoid the tape damage, loosen the hex screw of P3 and P4 post so that the flange of P3 and P4 post is set free. (no limit).
4. In above condition, it possible to perform the Entrance Linearity adjustment.

Figure 3-16-7 shows tape path limit for each post.

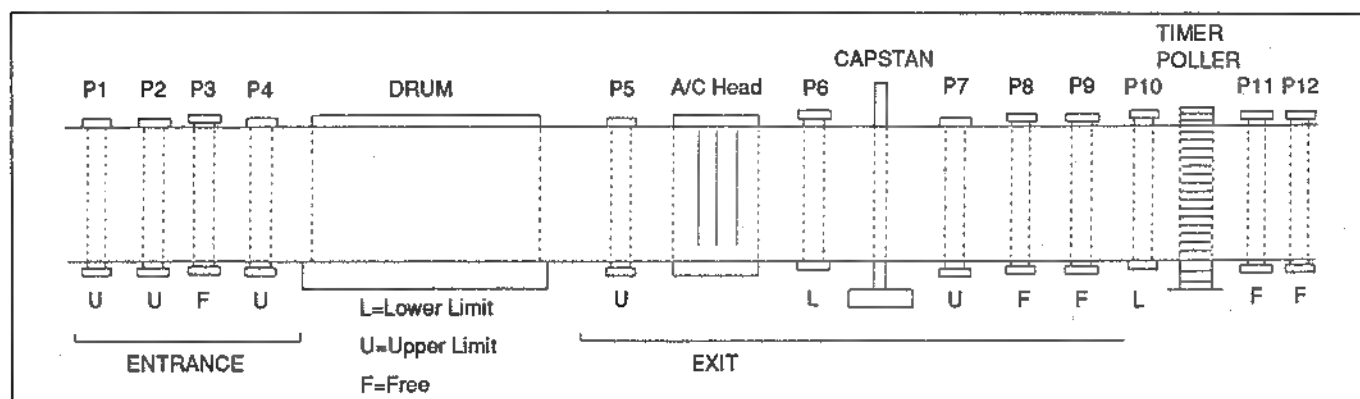


Fig. 3-16-7 Tape Path Limit

## P1 POST ADJUSTMENT LIMIT : UPPER LIMIT

1. Loosen the hex screw and adjust the upper flange so that the P1 post is set to the upper limit.
2. Place the unit in the loading mode and turn power off when the tape is half loaded as shown in figure 3-16-9.
3. Confirm that the tape is not damaged at P1 post. If tape is damaged by P1 post, readjust the upper flange of P1 post.
4. Tighten the hex screw.

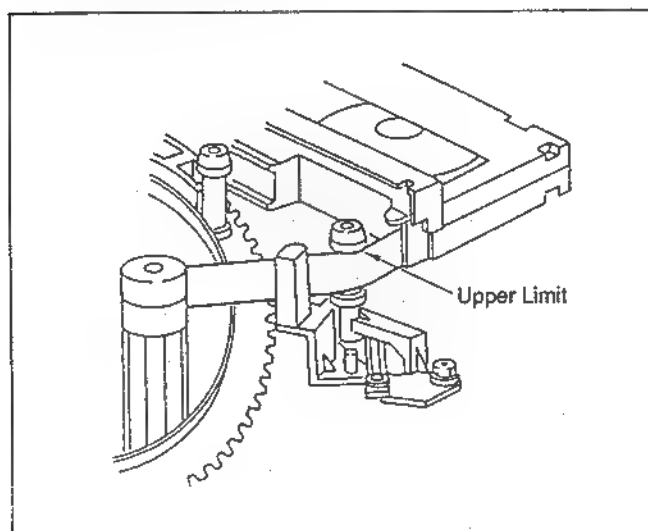


Fig. 3-16-9 Part Way of Loaded

## P2 POST ADJUSTMENT LIMIT : UPPER LIMIT

### P2 Post Roller and Upper Flange Replacement

#### Note:

In order to avoid the tape damage, set the P3 and P4 to free (no limit) during this section.

#### Post Roller Replacement

1. Remove the upper flange (do not loose the hex screw) and remove the P2 post roller.
2. Install the new P2 post roller and reinstall the upper flange (do not tighten the hex screw).

#### Upper Flange Replacement

1. Turn the upper flange counterclockwise and remove it.
2. Remove the hex screw from the removed upper flange.
3. Reinstall the hex screw to new upper flange and set nearly original position.
4. Install the new upper flange.

## P2 Post Height Adjustment

1. Playback the work cassette on which is recorded a color bar signal and observe that the P2 post upper edge has no tape damage.
2. Observe that the entrance side of Y or C RF envelope is between 85 - 115% as shown in figure 3-16-10.
3. If it is not, slightly adjust the P2 post upper flange so that the Y or C RF envelope meets specification.

#### Note :

Basically, RF envelope changed parallel by adjusting the Tracking VR on the front panel as shown in figure 3-16-11. If in case of B. or C, readjust the P2 post height.

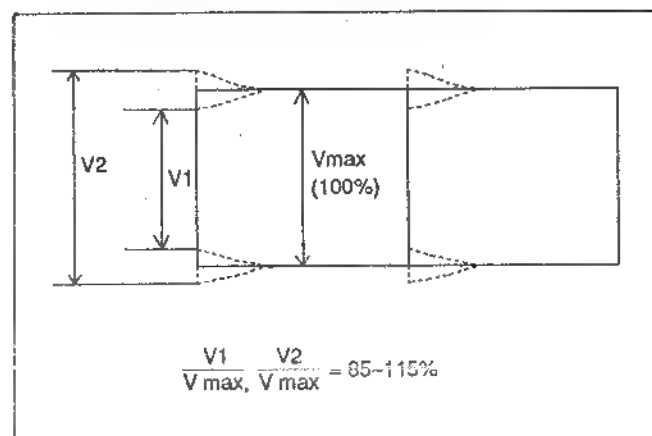


Fig. 3-16-10 Entrance Side Spec

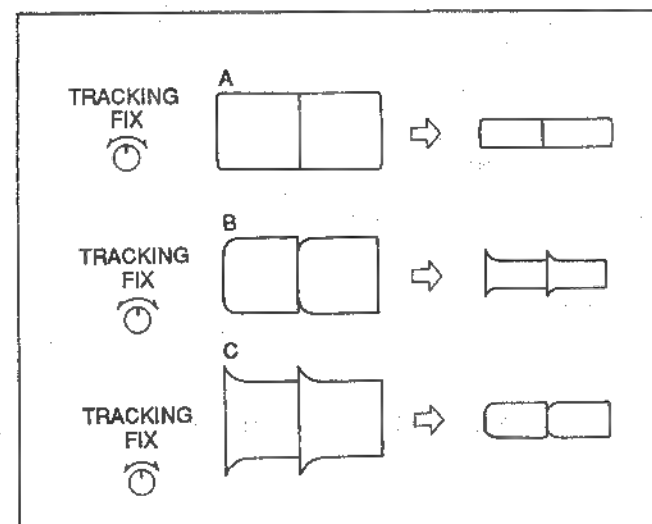


Fig. 3-16-11 Entrance Side

### P3 POST ADJUSTMENT LIMIT : FREE

1. Turn the P3 upper flange to counterclockwise so that the tape lower edge touches the P3 lower flange. (At that time, verify that the envelope entrance side is not changing.)
2. Turn the upper flange of P3 post to 3/4 clockwise (0.3mm down) as shown in figure 3-16-12.

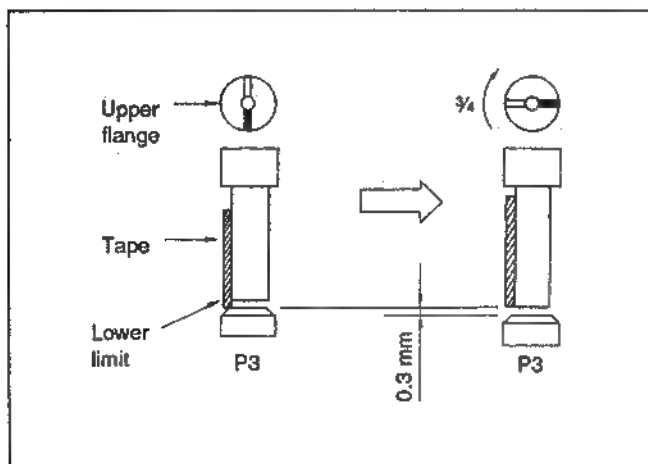


Fig. 3-16-12 P3 Post Height Adj.

### P4 POST ADJUSTMENT LIMIT : UPPER LIMIT

Reposition the P4 post so that its upper flange just touches the top edge of the tape as shown in figure 3-16-13. Tighten the hex screw to lock this adjustment.

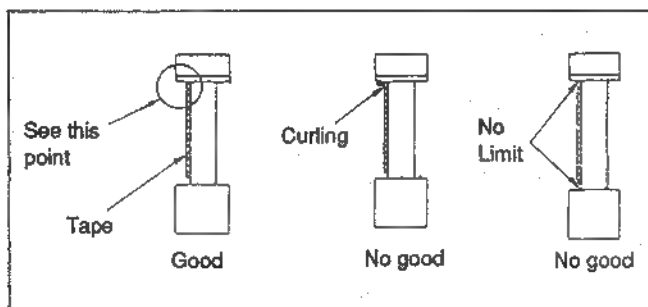


Fig. 3-16-13 P4 Post Limit

### EXIT LINEARITY ADJUSTMENT

#### Note:

P5, P6 and A/C head affect the RF envelope and the audio level. They must be adjusted together.

### P5 POST ADJUSTMENT LIMIT : UPPER LIMIT

1. The oscilloscope setting is the same as for the entrance linearity adjustment.
2. First play back a blank or pre-recorded tape in the SHTL X1 and SHTL X-1 mode and observe the tape at the P5 post. Make sure that no tape curling occurs at the P5 post. Also the upper edge of the tape should just touch the top flange of the P5 post. Adjust the P5 post as necessary.
3. P5 post height adjustment is explained below. (Observe the Y or C RF envelope).

#### Note:

Lower drum rabbit guide is reference of interchange adjustment.

- (1) Play back the linearity portion of the alignment tape. If the envelope is as shown in figure 3-16-14, lower the P5 post slightly so that the envelope becomes flat.
- (2) If the envelope appears as shown in figure 3-16-15, raise the P5 post until the envelope is flat.
- (3) If the envelope is as shown in figure 3-16-16 both the height of the P5 post, and the tilt of the A/C head will require adjustment.
- (4) After adjustment of the P5 post, confirm that the audio level is maximum and audio azimuth is same phase. (Refer to A/C Head Adjustment Section)

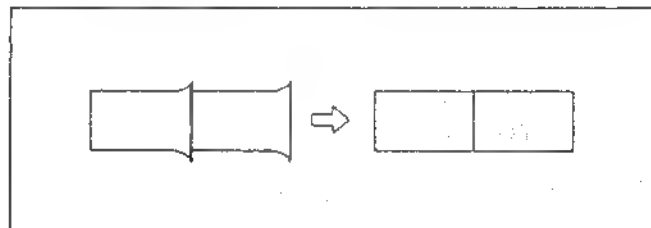


Fig. 3-16-14 Exit Side Envelope (1)

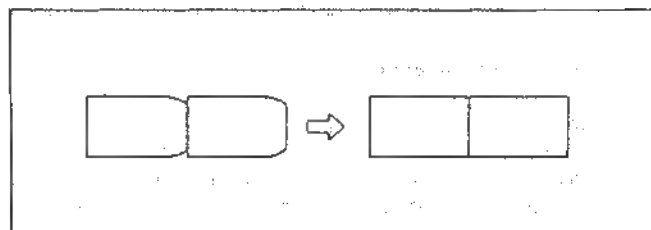


Fig. 3-16-15 Exit Side Envelope (2)

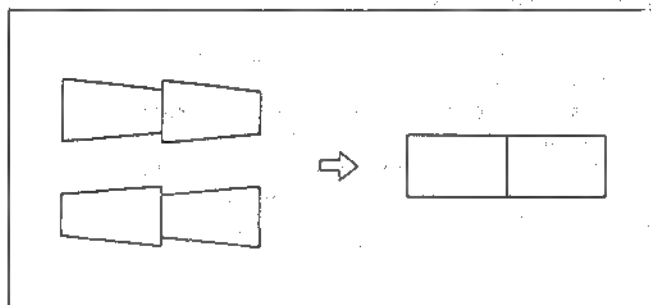


Fig. 3-16-16 Exit Side Envelope (3)

**P6 POST ADJUSTMENT**  
**LIMIT : LOWER LIMIT**

**Note :**

When replace the P6 Post Roller, always check the audio level and azimuth.

1. Turn upper flange counterclockwise so that the lower flange touches the tape lower edge.
2. Confirm that tape curling or tape damage does not occur at the tape's lower edge in the SHTL or VAR X1 and SHTL or VAR X-1 mode as shown in figure 3-16-17.
3. If tape curling or tape damage occurs at the tape's lower edge, waving of RF envelope may occur.
4. Confirm that the audio level is maximum and azimuth is same phase. (refer to A/C Head Adjustment section)

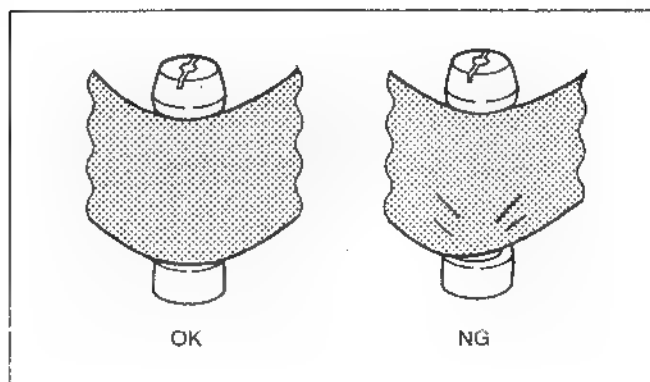


Fig. 3-16-17 Tape Path on P6 Post

**P7 POST ADJUSTMENT**  
**LIMIT : UPPER LIMIT**

**Note :**

P7 Post is replaced with Turn Roller Arm Unit together which have already adjusted for P7 post tilt. Therefore, do not adjust the P7 post tilt when replacing.

1. Place the unit in the SHTL or VAR x 1 and SHTL or VAR x -1 mode and confirm that the tape curling or tape damaging does not occur at tape upper edge as shown in figure 3-16-18.

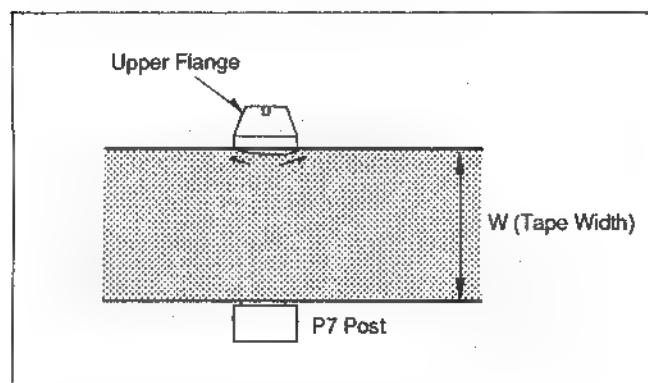


Fig. 3-16-18 P7 Tape Travel

2. If too much upper limit is applied, adjust upper flange with slightly so that the upper flange just touches the tape upper edge.
3. Confirm that the tape curling or tape damaging does not occur at P6 post in SHTL or VAR x 1 and SHTL or VAR x -1 mode.

**P8 POST ADJUSTMENT**  
**LIMIT : FREE**

1. Confirm that the tape curling or tape curling does not occur at the P6 post lower flange in SHTL or VAR x 1 mode.
2. If tape curling or tape curling occur at the P6 lower flange, adjust P8 upper flange so that the P8 lower flange touches the tape lower edge in SHTL or VAR x 1 mode.

**P9 POST ADJUSTMENT**  
**LIMIT : FREE**

1. Place the unit in the SHTL or VAR x 2 to SHTL or VAR x -1 mode alternately.
2. Confirm that the tape curling or tape curling does not occur at P8 or P10 flange in any SHTL or VAR mode.
3. If tape deforming or tape curling occur, adjust upper flange so that the tape curling or tape curling disappears at P8 or P10 post in any SHTL or VAR mode.

**P10 POST ADJUSTMENT**  
**LIMIT : LOWER LIMIT**

Refer to IP BASE UNIT REPLACEMENT

**P11 POST ADJUSTMENT**  
**LIMIT : FREE**

1. Adjust upper flange so that the tape curling or tape curling disappears in SHTL or VAR x 1 to SHTL or VAR x -1 mode and confirm that the tape on the timer roller does not fall the gutter of timer roller.

**P12 POST ADJUSTMENT**  
**LIMIT : FREE**

1. Adjust upper flange so that the tape curling or tape curling disappears in SHTL x 1 to SHTL x 4 mode.
2. During loading/unloading, turn power off when the P12 post touches the tape and confirm that the tape is not damaged.
3. If the tape is damaged, readjust the P12 post upper flange.



### 3-17. IP BASE UNIT (with P10 Post) REPLACEMENT

#### 3-17-1. Replacement

##### Removal

1. Remove the E-ring (B) and washer as shown in figure 3-17-1.
2. Remove the IP Base Unit (A). (Do not lose spring and washers.)

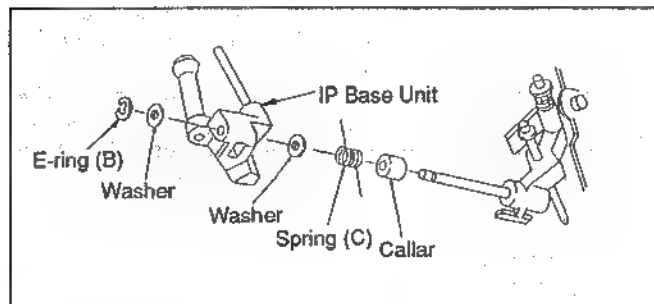


Fig. 3-17-1 IP Base Unit Removal

##### Installation

1. Hang on the spring (C) to the IP Base Unit and place the E-ring (B) and washer to original installation.

#### 3-17-2. Adjustment

##### P10 Post Tilt Adjustment.

##### \*Tool Required :

Hex Wrench (2.4mm) and (1.5mm)

1. Loosen the 2 hex screw (A) and hex screw (B) as shown in figure 3-17-2.
2. Insert a cassette and place the unit in the FF mode.
3. Confirm the tape movement at the Timer Roller.
4. If the tape movement is upward, turn hex screw (B) clockwise.
5. If the tape movement is downward, turn hex screw (B) counterclockwise.
6. Confirm that the tape on the Timer Roller does not fall the groove of Timer Roller.
7. Tighten 2 hex screw (A).

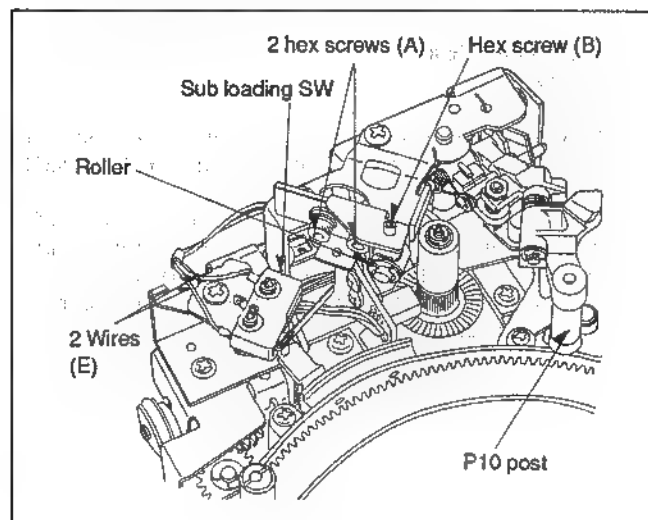


Fig. 3-17-2 Tilt Adjustment

##### Note :

When the hex screw (B) is turned counterclockwise, the roller does not come up. In that case, press up the roller using finger as shown in figure 3-17-3. When tighten 2 hex screw (A), hold the position of IP Base Unit using finger as shown in figure 3-17-3.

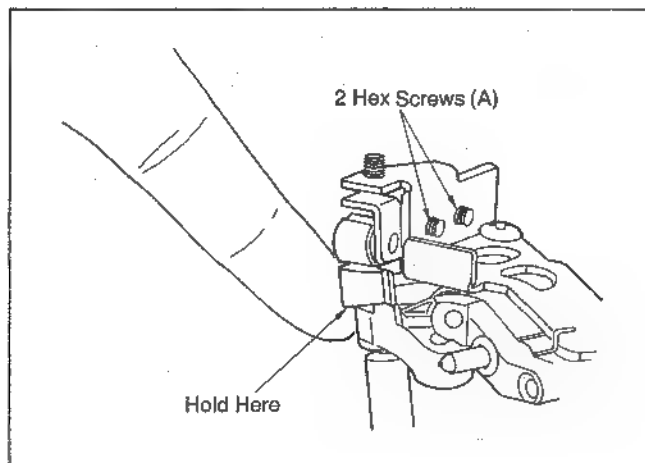


Fig. 3-17-3 IP Base Holding

##### P10 Post Height Adjustment

1. Adjust the upper flange with slightly so that the P10 post is set to lower limit in PLAY mode.
2. Place the unit in SHTL  $\pm$  32 to SHTL  $\times$  -32 alternately and confirm that the tape on the timer roller does not fall the groove of timer roller in any modes as shown in figure 3-17-4.

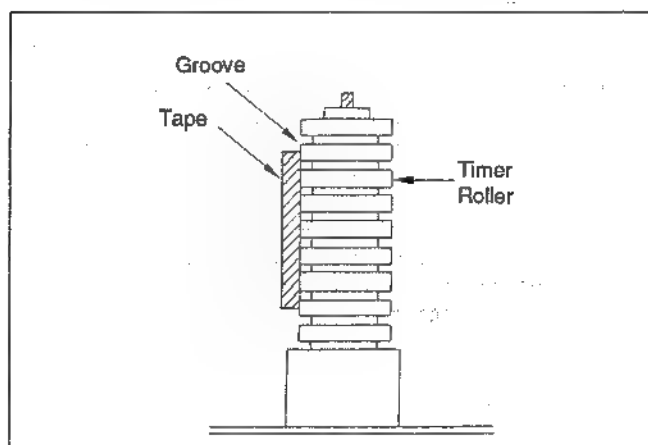


Fig. 3-17-4 Timer Roller

### 3-18. SUB LOADING SWITCH REPLACEMENT AND ADJUSTMENT

#### 3-18-1. Replacement

##### Removal

1. Unscrew the 2 screws (C) and remove the Sub Loading Switch (Micro switch) as shown in figure 3-18-1.
2. Unsolder the 2 wires (E) on the Sub Loading Switch (Micro switch) as shown in figure 3-18-1.

##### Installation

1. Install the new Sub Loading Switch (Micro switch) and follow the removal steps in reverse order.

#### 3-18-2. Adjustment

##### \*Tool Required:

Fine Adj. Driver (VFK0446)

1. Turn Power on. Insert a cassette and wait until tape loading completes.
2. Make sure that when the tape loading is completed, that the sub loading switch has activated. (Check that Load speed increases after switch closes).
3. If the switch does not active, loosen the screw (F), insert the Fine Adj. Driver into hole (D), and adjust the position of the switch as needed. (figure 3-18-1).

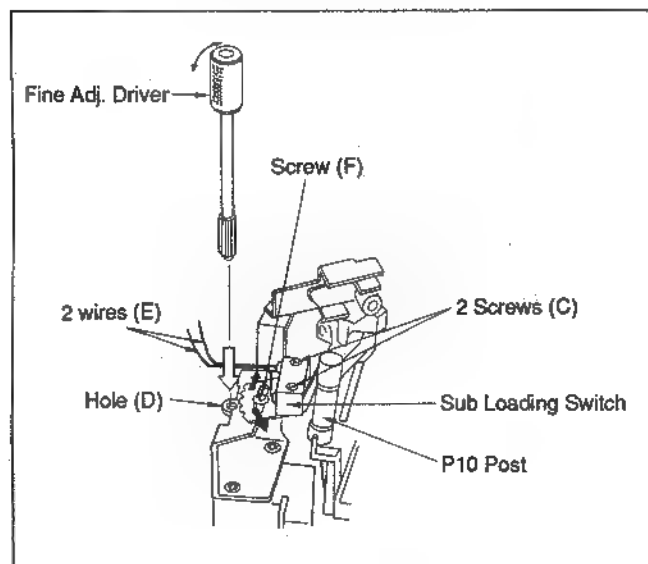


Fig. 3-18-1 Sub Loading Switch

### 3-19. BRAKE UNIT AND BRAKE SOLENOID REPLACEMENT

#### Replacement

1. Remove the MECH. INTERFACE CIRCUIT P.C.Board and Reel Base Assembly by same procedure of Reel Stand Unit replacement.
2. Remove the 4 screws (A) and (B) and remove Brake Solenoid.

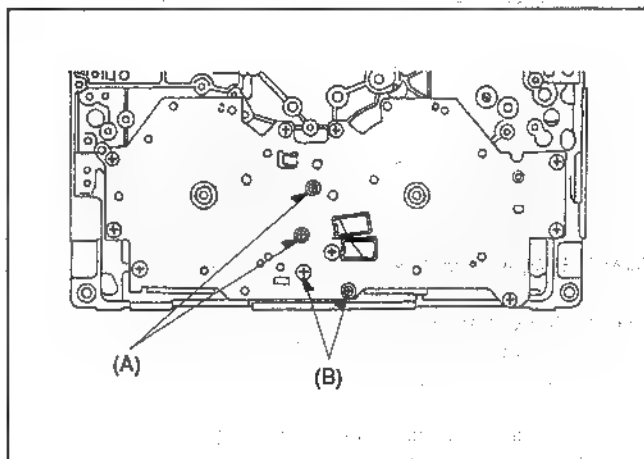


Fig. 3-19-1 Reel Base Assembly

3. Remove the 2 E-Rings (C) and (D) and remove the Brake unit.

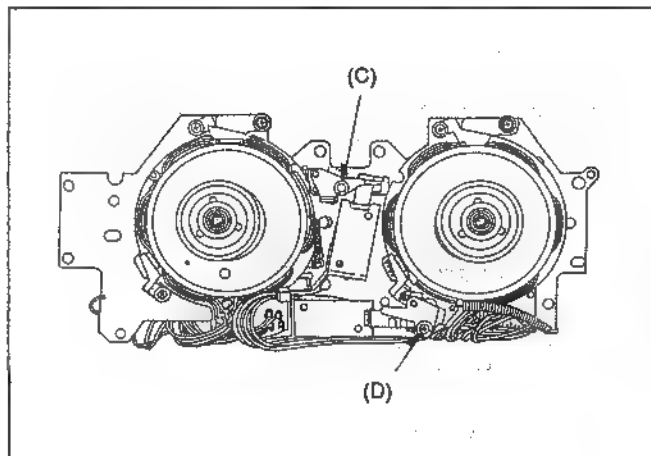


Fig. 3-19-2 Brake Unit

#### Installation

1. Install the new Brake unit and new Solenoid and follow the previous steps in reverse order.

#### Adjustment

1. Adjust Brake Solenoid position so that the space A and B are same when solenoid plunger is energized.
2. After adjustment, tighten and fix the 2 screws.

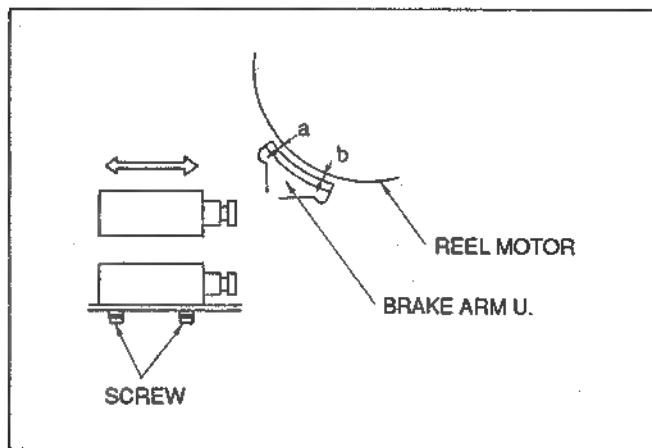


Fig. 3-19-3 Brake Solenoid

#### BRAKE TORQUE CONFIRMATION

##### \*Tools Required :

Dial Torque Gauge (VFK0133)

Dial Torque Gauge Adaptor (VFK0134)

1. Confirm that the small cassette reel table is in the down position.
2. Attach the dial torque adaptor to the dial torque gauge and place the dial torque gauge over the reel table.
4. Float the gauge slightly above the reel table as shown in figure 3-19-4 and turn it in the direction as shown in figure 3-19-5. The gauge should be read at the point where it begins to slip and confirm that the brake torque is within specification.

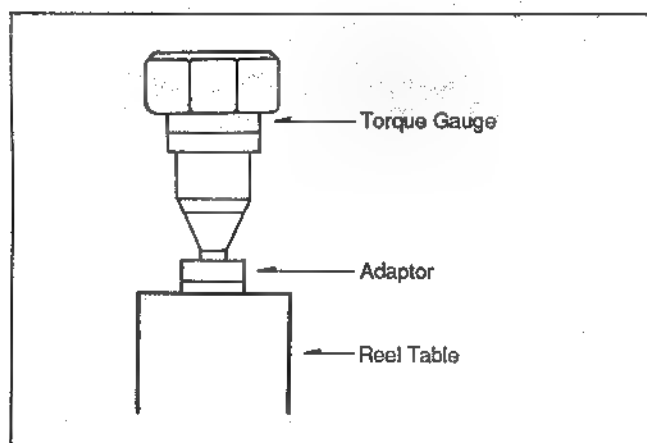


Fig. 3-19-4 Dial Torque Gauge

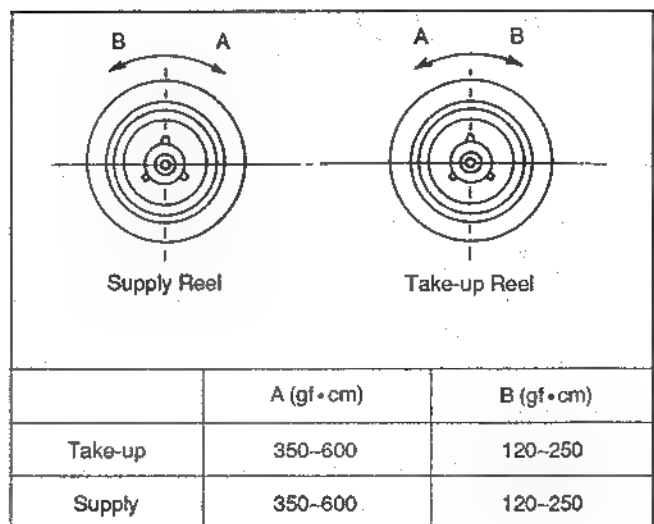


Fig. 3-19-5 Torque Confirmation

### 3-20. LOADING MOTOR REPLACEMENT

#### 3-20-1. Replacement

##### Removal

1. Remove the bottom plate.
2. Disconnect the connector P61027 on the Mech Interface P.C.B.
3. Remove the 3 screws (A) and remove the turn roller lifter unit as shown in figure 3-20-1.
4. Remove the 3 screws (B) and remove the sub loading switch unit.
5. Remove the 4 screws (C), motor holder cover (D) and the loading motor unit (E).
6. Remove the loading belt (F).
7. Remove the screw (I) and remove the loading motor.

##### Installation

1. Follow the removal steps in reverse order.

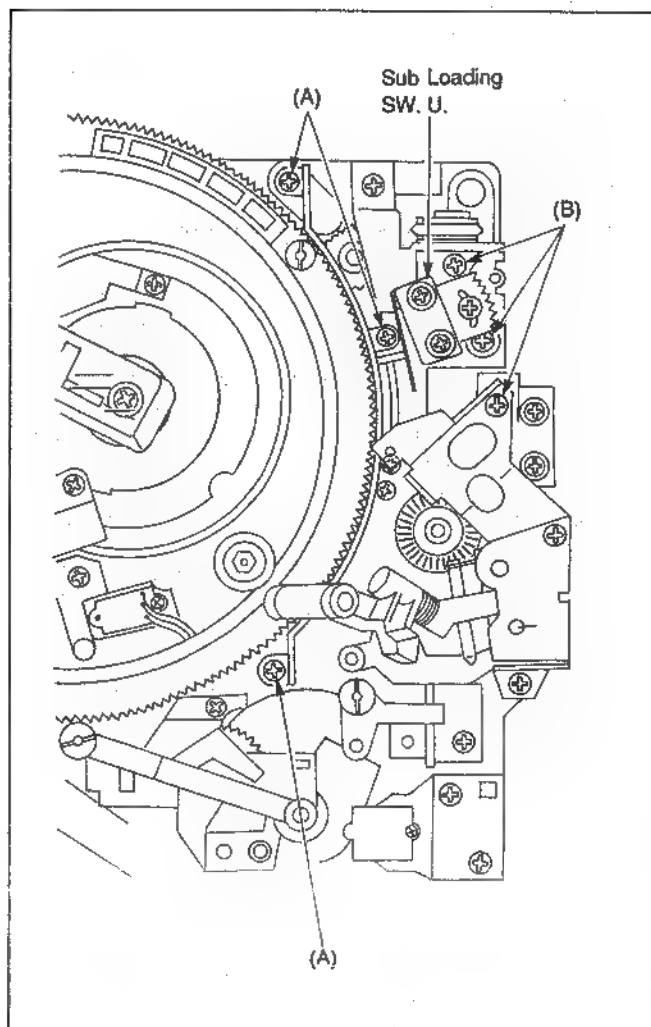


Fig. 3-20-1 Loading Motor Unit

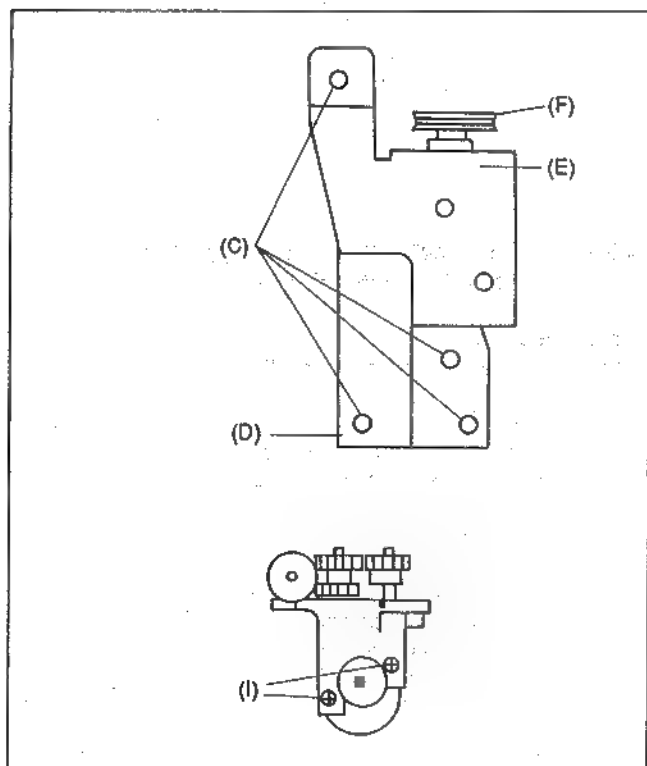


Fig. 3-20-2 Loading Motor

### 3-21. SMALL CASSETTE MOTOR REPLACEMENT AND ADJUSTMENT

#### 3-21-1 Replacement

1. Unscrew the 5 screws (A) and remove the small cassette reel base unit as shown figure 3-21-1.
2. Hang off the 2 spring (B) and remove the small cassette reel base unit as shown in figure 3-21-1.
3. Lift up the worm wheel (do not remove) and unscrew 2 screws (C) and then remove the small cassette motor as shown in figure 3-21-2.

#### 3-21-2 Installation

1. Follow the previous steps in reverse order.

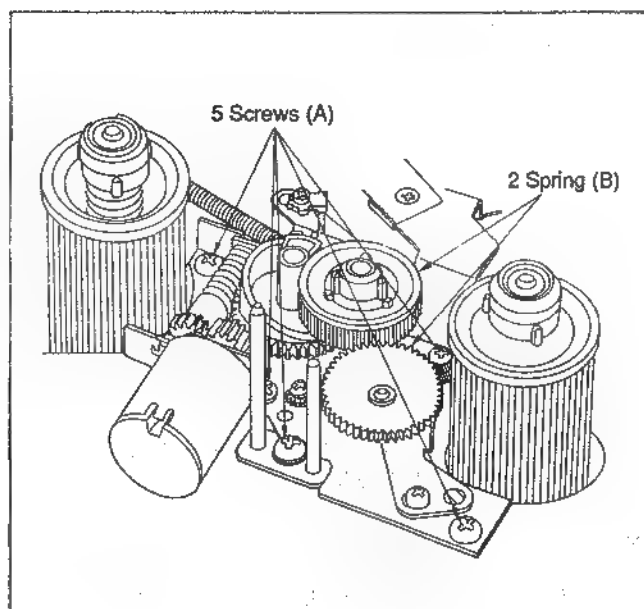


Fig. 3-21-1 S-Reel Base Removal

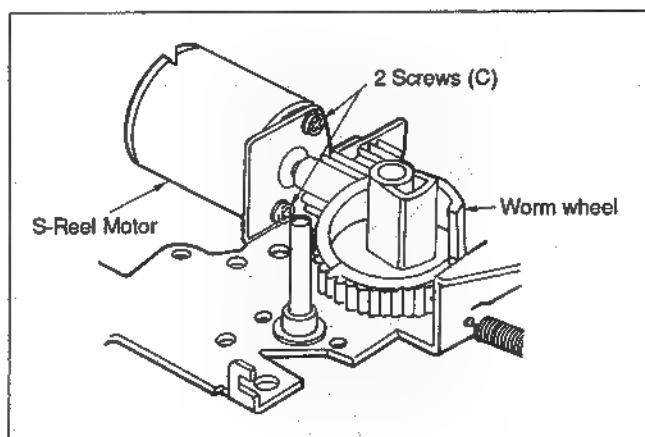


Fig. 3-21-2 Motor Removal

### 3-22. FRONT LOADING MOTOR REPLACEMENT

#### Removal

1. Remove the front loading unit.
2. Unsolder the 2 leads on the front loading motor.
3. Remove the front loading belt.
4. Remove the 2 screws (A) and remove the front loading motor.

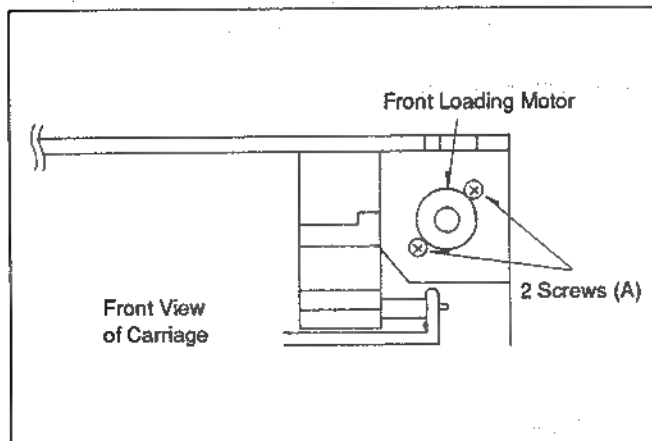


Fig. 3-22-1 Front Loading Motor Removal

#### Installation

1. Install new front loading Motor in reverse order.

### 3-23. RECORDING INHIBIT MICROSWITCH REPLACEMENT

#### Removal

1. Unsolder the Recording Inhibit switch and remove the screw (A) and then remove the Recording Inhibit switch as shown in figure 3-23-1.

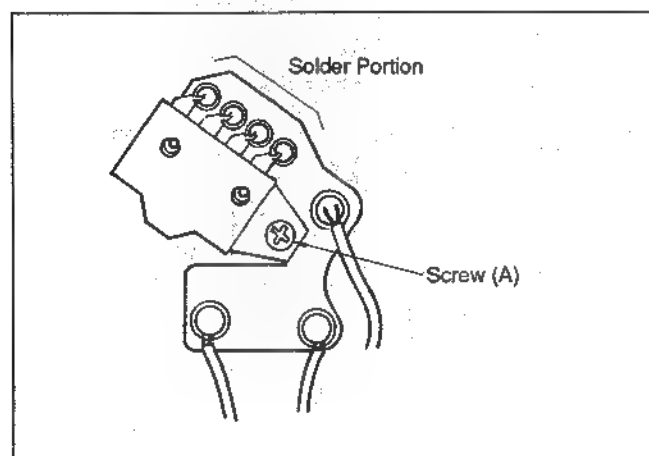


Fig. 3-23-1 Rec Inhibit SW Removal

#### Installation

1. Install the new Recording Inhibit SW in reverse order.
2. Confirm that both sizes of cassette (large and small) are detected properly.

### 3-24. RING ROLLER ADJUSTMENT

1. With the power switch off (without a cassette), press the ring drive gear down. (To free the loading ring.) Turn the loading ring counterclockwise approximately 20 degree.
2. Move the loading ring back and forth by hand as indicated by the arrows X-X' in figure 3-24-1. Confirm that the loading ring's free movement is approximately 0.3mm.
3. Loading ring play is adjusted by loosening the 2 screws (A) and moving the ring roller unit in the direction indicated by arrows Y-Y' in figure 3-24-1. Adjust for 0.3mm of free movement.
4. Tighten the 2 screws (A).
5. Confirm that the loading ring turns smoothly.
6. Reset the ring drive gear.

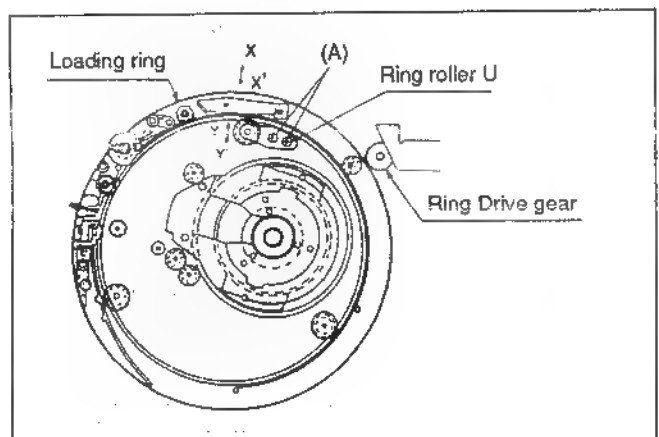


Fig. 3-24-1 Ring Roller

### 3-25. LOADING COMPLETION DETECT SENSOR POSITION ADJUSTMENT

#### \*Tools Required:

Fine Adjustment Screwdriver (VFK0446)

1. Move the stopper lever (figure 3-25-1) toward the photo sensor by hand and verify that the distance (A) is within 0-1mm.
2. If not, loosen the 2 screws (C) and insert the fine adjustment screwdriver into hole (D).
3. Adjust the loading completion detect photo assembly by moving it forward, or backward as indicated by the arrows X-Y in figure 3-25-1 so that distance (A) is 0 to 1mm.
4. Tighten the 2 screws (C).
5. After this adjustment, confirm that the photo sensor output level is more than 4.5V at loading completion and less than 0.5 volt at

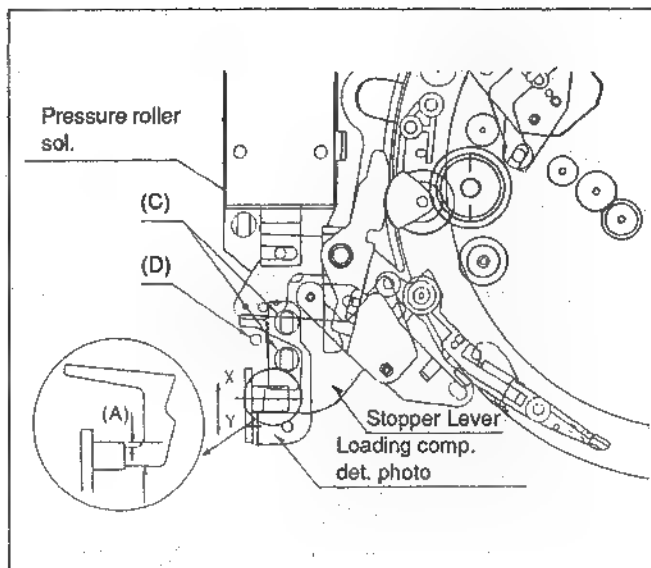


Fig. 3-25-1 Loading Completion Sensor

### 3-26. UNLOADING COMPLETION DETECT SENSOR POSITION ADJUSTMENT

**\*Tools Required:**

Fine Adjustment Screwdriver (VFK0446)

1. With the power off (without a cassette), measure the clearance (A) as indicated in figure 3-26-1. This distance should be from 1mm to 2mm.
2. If not, loosen the 2 screws (C) and insert the fine adjustment screwdriver into hole (D). (figure 3-26-1)
3. Adjust the unloading completion detect photo sensor so that the clearance (A) is from 1mm to 2mm.
4. Tighten the 2 screws (C).

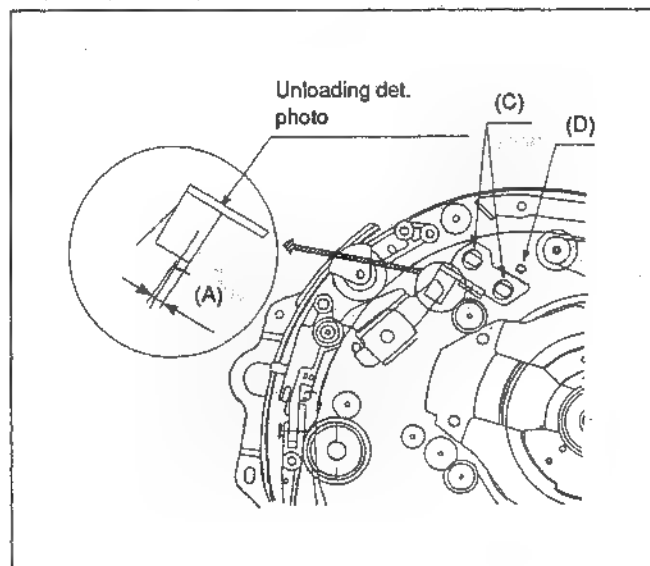


Fig. 3-26-1 Unloading Completion Sensor

### 3-27. POSITION OF P1 POST DRIVE ROD

**\*Tools Required:**

Eccentric Screwdriver (VFK0358)

1. Remove the front loading unit from the unit, reconnect the connector to the removed front loading unit. Insert a work cassette to the removed carriage and press the EJECT button.
2. Measure the distance (C) as shown in figure 3-27-1 and verify that it is within 0.5mm (+/- 0.1mm).
3. If not, loosen the two screws (A) (figure 3-27-1) and insert the eccentric screwdriver into hole (B). Adjust the P1 post drive rod length so that distance (C) becomes 0.5mm (+/- 0.1mm). Tighten the 2 screws (A) and replace the small cassette holder.

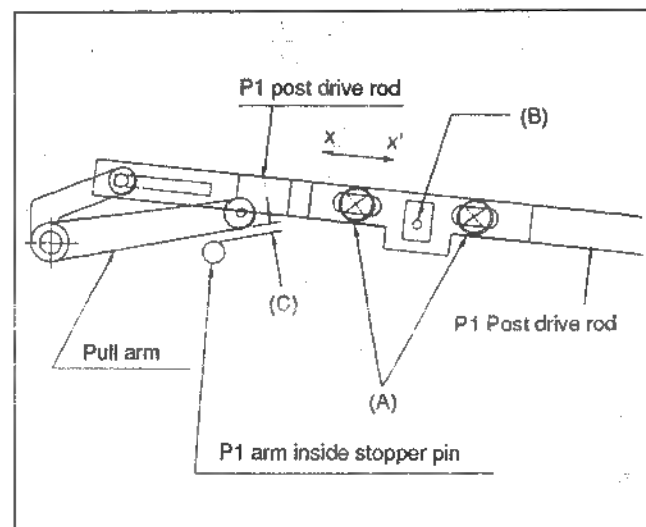


Fig. 3-27-1 P1 Post Drive Rod

### 3-28. CASSETTE UP AND DOWN SWITCHES ADJUSTMENT

1. Remove the front loading unit without removing the connector.
2. Insert a cassette into the front loading unit. When front loading is completed confirm that there is no clearance at the (E) position as shown in figure 3-28-1.
3. If it is not, loosen screw (A) and insert the fine adjustment screwdriver into hole (B).
4. Adjust the position of the switch (A) with the fine adjustment screwdriver so that the loading complete switch is on.
5. Tighten the screw (A) and reconfirm that there is no clearance at the (E) position.
6. Place the unit in the eject mode.
7. Slightly loosen the screw (C) and insert the fine adjustment screwdriver into hole (D).
8. Adjust the position of the switch (B), with the fine adjustment screwdriver, so that the Cassette Up and Down switch is on.

9. Then confirm that the drive pulley rotates 1/4-1/2 turn, smoothly by hand and there is no play on the mirror holder.
10. Tighten the screw (C).

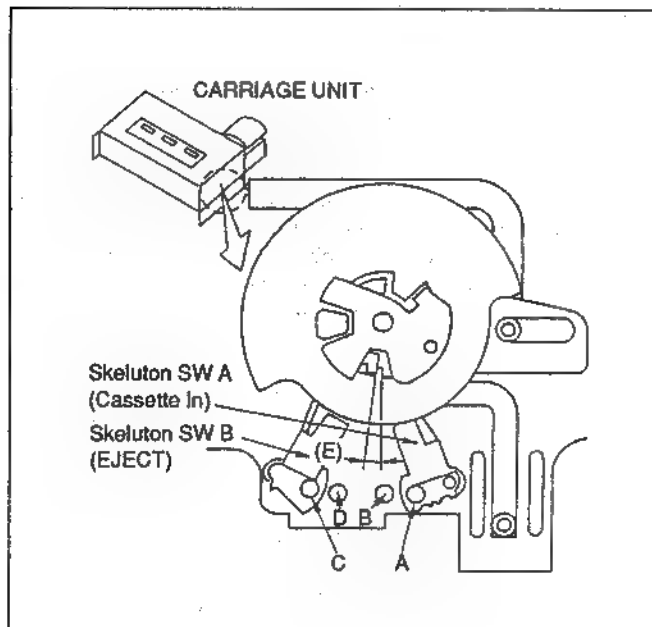


Fig. 3-28-1 Cassette Up and Down SW

### 3-29. FRONT LOADING U. LEAF SWITCH REPLACEMENT AND ADJUSTMENT

#### 3-29-1. Replacement

##### Removal

1. Remove the front loading unit.
2. Turn the front loading unit as shown in figure 3-29-1.
3. Remove the screw (A).
4. Unsolder the wire (B) of leaf switch and remove the leaf switch.

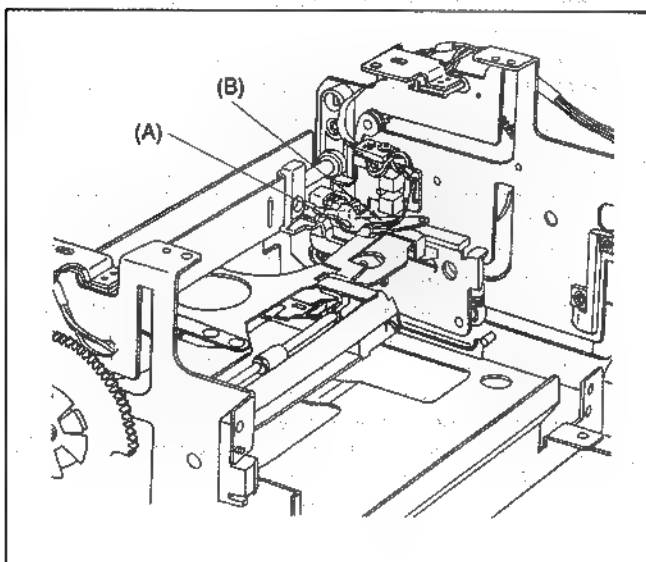


Fig. 3-29-1 Leaf SW

#### Installation

1. Install the new leaf switch and solder the wires.
2. Follow the previous steps in reverse order.
3. Adhere the wire (B) when it has loose.

#### 3-29-2. Adjustment

1. If it is not, slightly loosen the screw (A) and adjust the leaf switch so that the leaf switch is on.

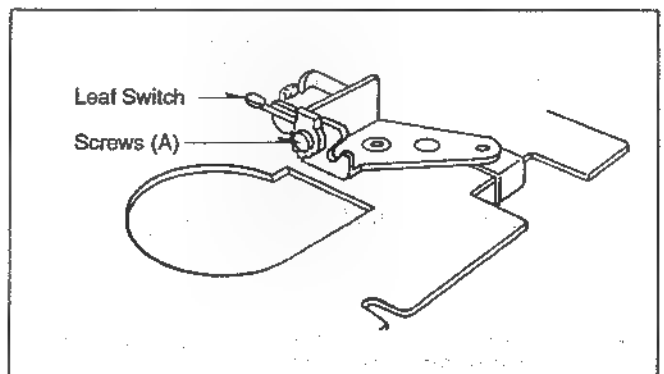


Fig. 3-29-2 Small Cassette Detect SW

### 3-30. SMALL CASSETTE LEAF SWITCH REPLACEMENT AND ADJUSTMENT

#### \*Tool Required :

Fine Adjustment Screwdriver

#### 3-30-1. Replacement

1. Unscrew the 2 screws (A) and remove the Leaf switch as shown in figure 3-30-1.
2. Unsolder the wires and install the new Leaf switch.

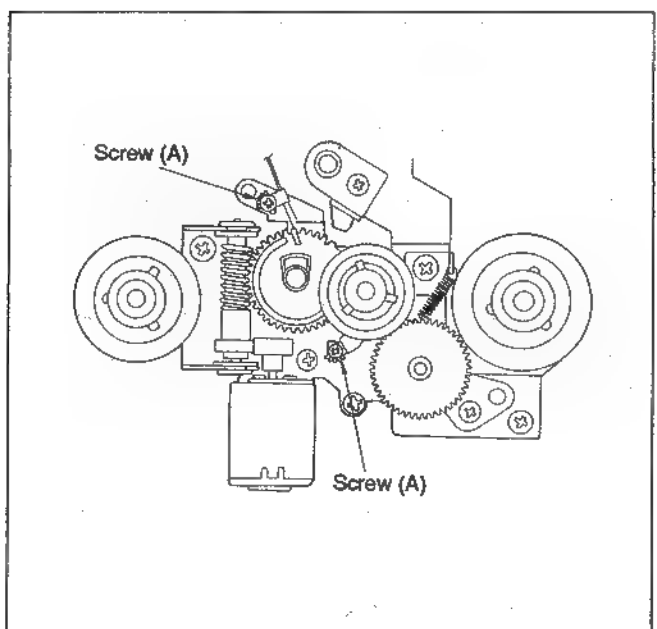



Fig. 3-30-1 Leaf Switch

### 3-30-2. Adjustment

1. Set the small cassette reel to down position with rotating the worm gear manually.
2. Insert the fine adjustment screwdriver into hole (B) and adjust the Leaf switch position as shown in figure 3-30-2.
3. Set the small cassette reel to the up position (engaged T-Reel Stand Unit) while rotating the worm gear manually.
4. Insert the fine adjustment screwdriver into hole (C) and adjust the Leaf switch position as same as step 2.
5. Confirm that the Leaf switch is  when insert the both size cassette (small and large) is inserted to the cassette carriage.

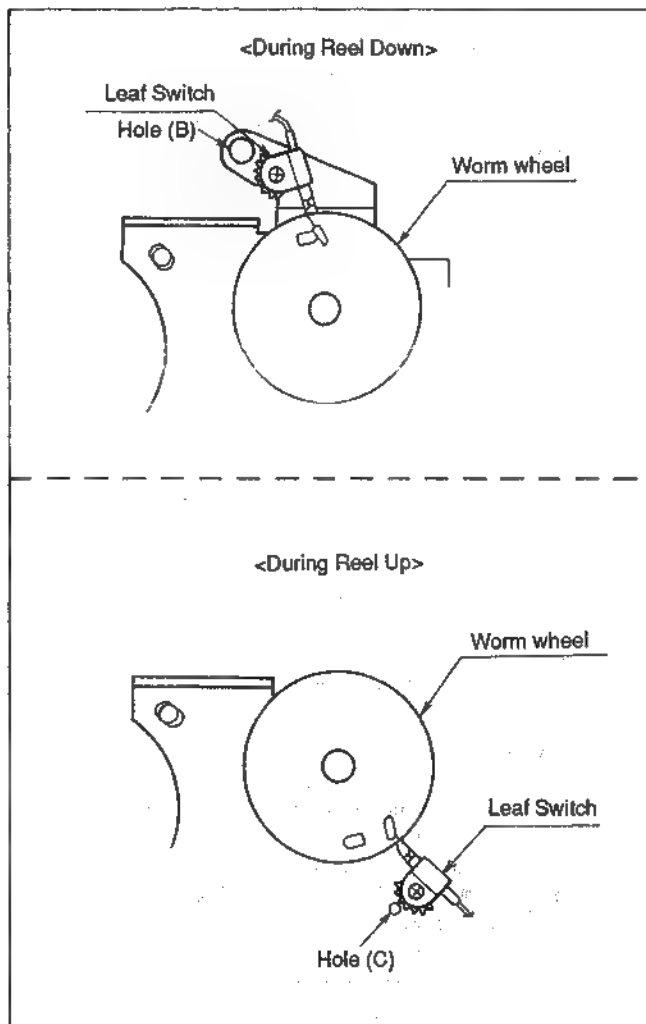


Fig. 3-30-2 Leaf SW Position Adjustment

## 3-31. TURN ROLLER ARM UNIT REPLACEMENT

### 3-31-1. Replacement

1. In order to ease replacement, unscrew 2 screws and remove the Pinch Roller Guide Unit as shown in figure 3-31-1.

2. Push the ring drive gear and turn loading ring counterclockwise manually so that the Turn Roller Arm Unit reaches toward.
3. Remove the E-ring (A) and washer (B) as shown in figure 3-31-2.

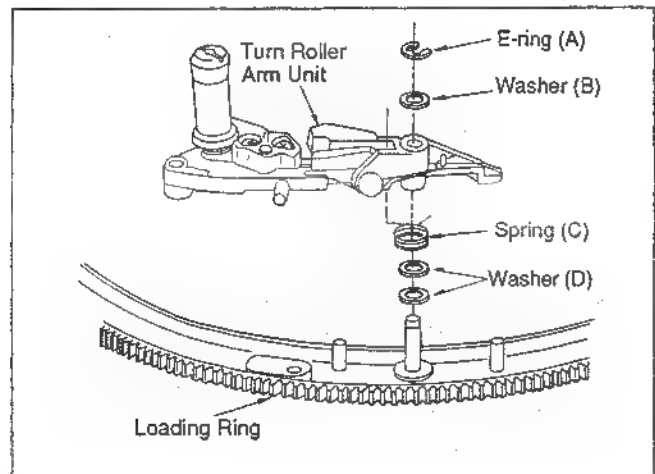
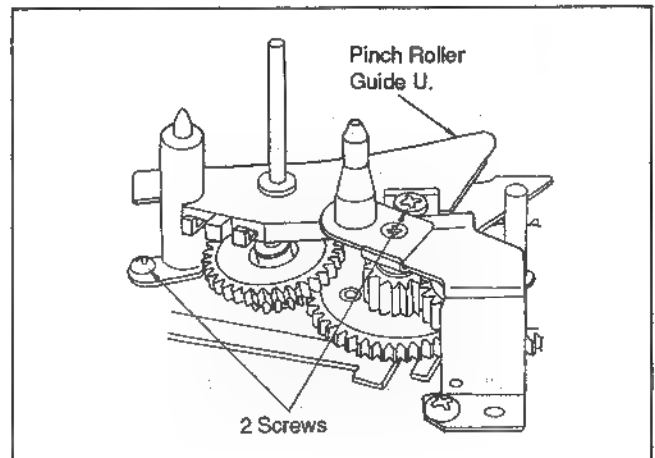


Fig. 3-31-2 Turn Roller Arm Removal

4. Hang the spring (C) off post on the loading ring and remove the Turn Roller Arm Unit as shown in figure 3-31-2.
5. Remove the 2 washers (D) as shown in figure 3-31-2.

### 3-31-2. Installation

1. Follow the previous steps in reverse order.

### 3-31-3. Adjustment

#### Note :

Do not adjust the P7 post tilt because supplied service parts have already adjusted.

1. Place the unit in the SHTL x 1 and SHTL x -1 mode and confirm that the tape curling or tape damaging does not occur at tape upper edge as shown in figure 3-31-3.



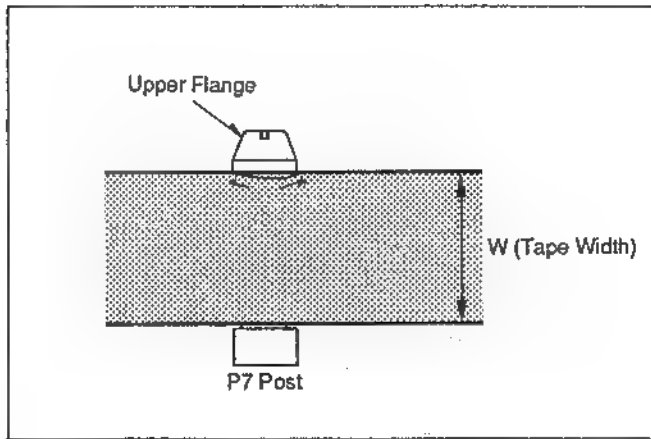


Fig. 3-31-3 P7 Tape Travel

2. If too much upper limit is applied, adjust upper flange so that the upper flange just touches the tape upper edge.
3. Confirm that the tape curling or tape damaging does not occur at P6 post in SHTL x 1 and SHTL x -1 mode.

### 3-32. CAM GEAR REPLACEMENT AND ADJUSTMENT

#### 3-32-1. Replacement

##### Removal

1. Remove the cassette carriage.
2. Turn the loading ring completely loading to the load position.
3. Unscrew 5 screws and remove the small cassette reel base unit as shown in figure 3-32-1.

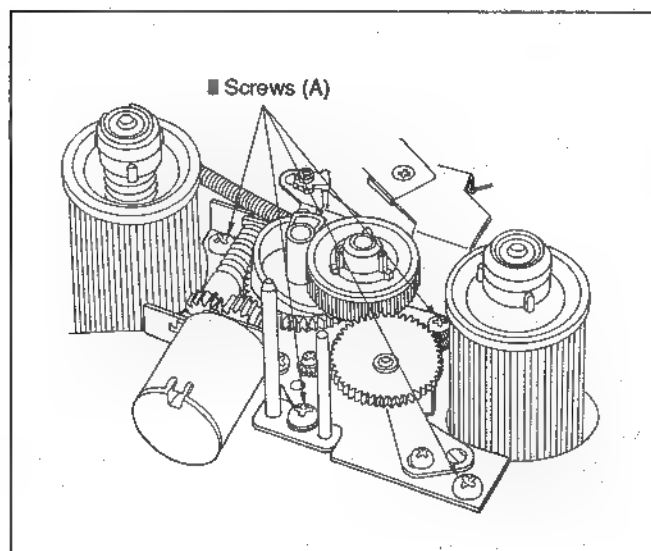


Fig. 3-32-1 Small Cassette Reel Base U.

4. Unscrew 3 screws and remove the photo sensor unit as shown in figure 3-32-2.

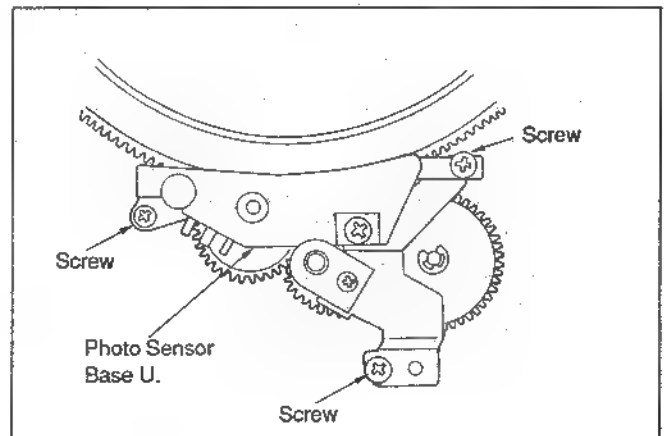


Fig. 3-32-2 Photo Sensor Base U.

5. Remove the E-ring and remove the cam gear as shown in figure 3-32-3.

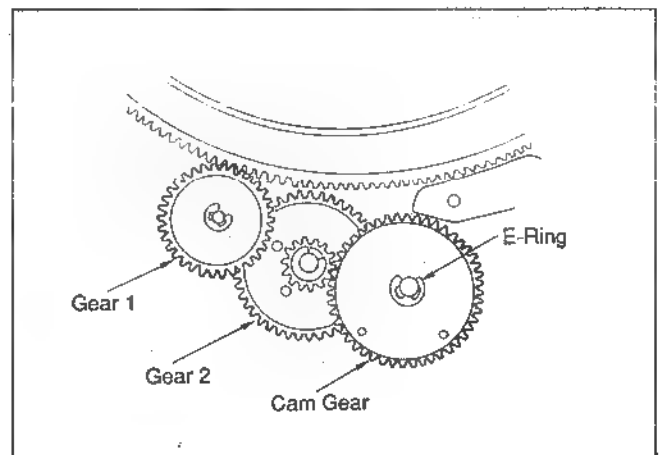


Fig. 3-32-3 Cam Gear Removal

#### 3-32-2. Adjustment

1. Remove the E-ring and remove the intermediate gear 1 as shown in figure 3-32-3.
2. Set the take up tension arm so that the tension arm will be free (spring activity does not function) as shown in figure 3-32-4.

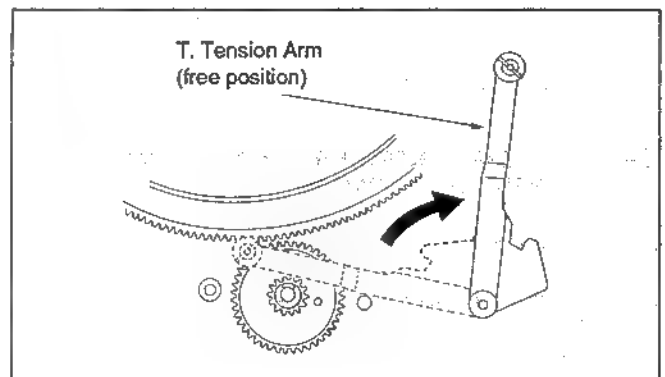


Fig. 3-32-4 T-Tension Arm Setting

3. Set the hole of intermediate gear 2 to the line between the shaft A and B as shown in figure 3-32-5.

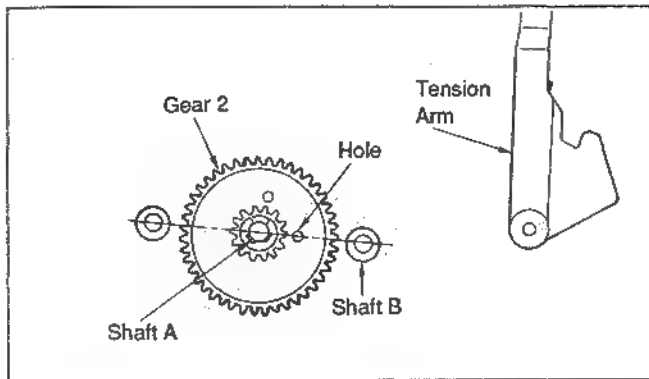


Fig. 3-32-5 Intermediate Gear 2 Setting

4. Install the new cam gear to the shaft B.
5. Set the hole of cam gear so that the hole of cam gear is matched with hole of intermediate gear 2 as shown in figure 3-32-6.
6. Turn the cam gear clockwise so that the tension arm pin is fits into the groove of cam gear as shown in figure 3-32-6.

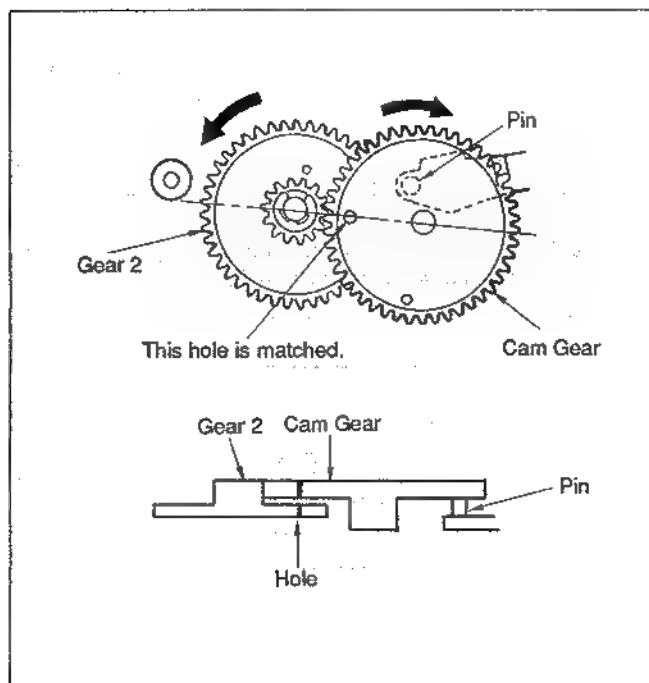


Fig. 3-32-6 Cam Gear Phase Adj. 1

7. Move back the take up tension arm and set the each hole of gear to the center on the line between shaft A and B (moving each gear) as shown in figure 3-32-7.
8. Turn the loading ring completely unloading position and install the intermediate gear 1.

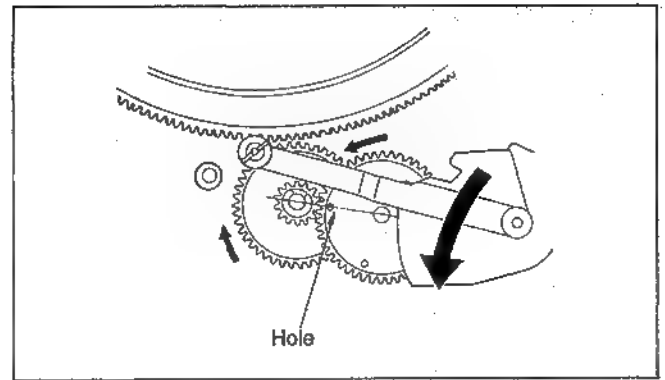


Fig. 3-32-7 Cam Gear Phase Adj. 2

9. Install the small cassette reel base unit and photo sensor base unit in reverse order.

### 3-33. CARRIAGE ILLUMINATION LAMP REPLACEMENT

#### Removal

1. Unscrew the 4 screws (A) and remove the carriage fix plate (C) as shown in figure 3-33-1.
2. Unscrew the 2 screws (B) and remove the lamp cover as shown in figure 3-33-1.
3. Unsolder lamp lead and remove the Carriage Lamp.

#### Installation

1. Follow the previous steps in reverse order.

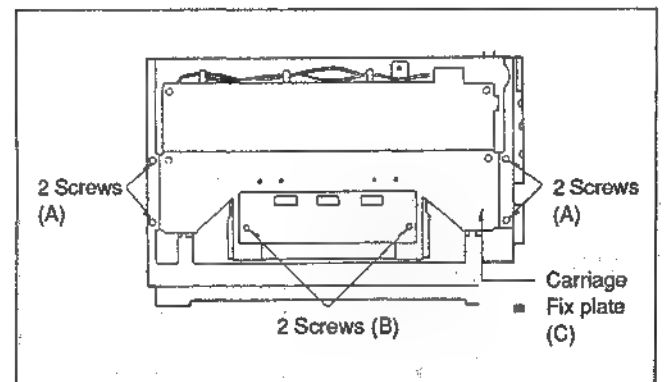


Fig. 3-33-1 Carriage Illumination Lamp

### 3-34. FAN MOTOR REPLACEMENT

1. Remove the top panel and remove the 2 screws (A).

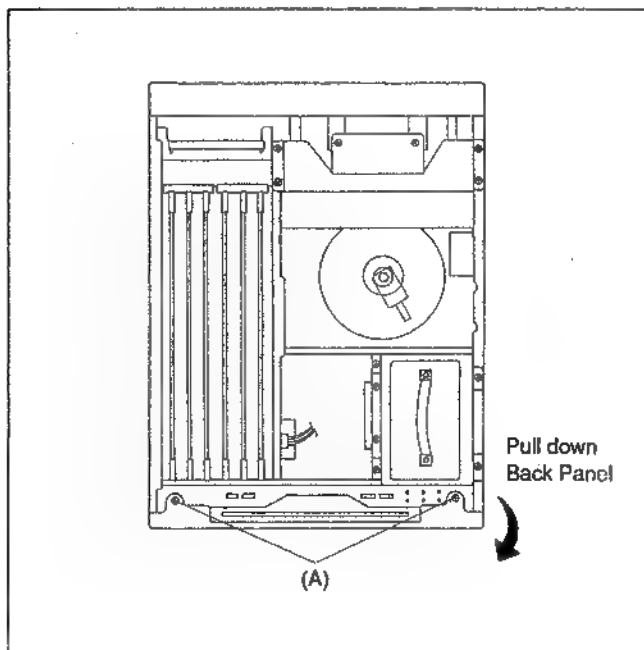


Fig. 3-34-1 Back Panel

2. Pull down the back panel and disconnect CN205 and CN206 on Audio I/O P.C.Board.
3. Remove the 8 screws (B) and (C) and remove the Fan Motors.

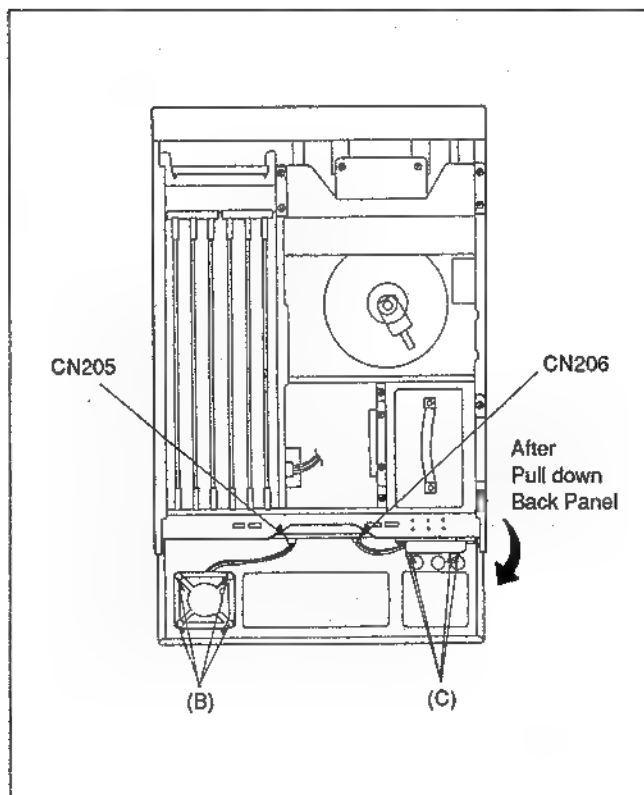


Fig. 3-34-2 Fan Motors

### 3-35. EJECT SW REPLACEMENT

1. Loosen 2 silver screws and remove the 4 screws (A) and then remove the front panel as shown in figure 3-35-1.

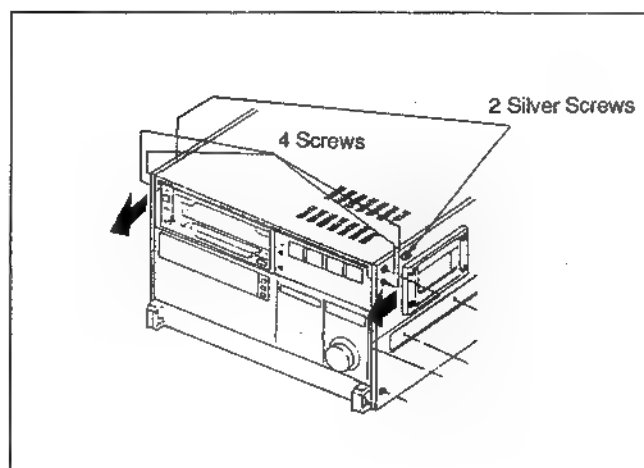


Fig. 3-35-1 Front Panel Removal

2. Remove the screw (B) on the Front Panel as shown in figure 3-35-2.

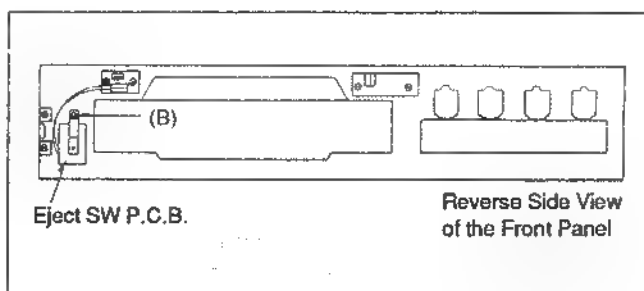


Fig. 3-35-2 Eject switch P.C.B. Removal

3. Unsolder the Eject switch on the Eject switch P.C.B. as shown in figure 3-35-3.

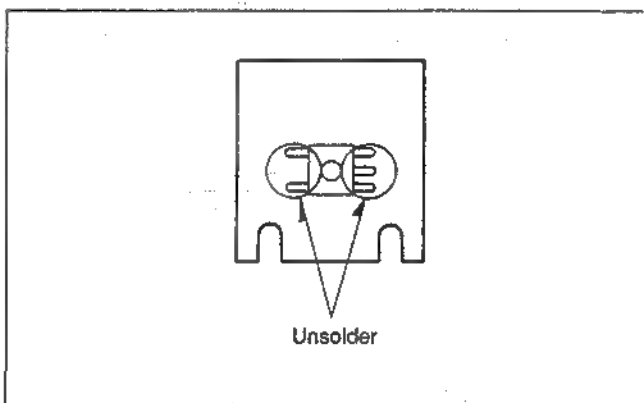


Fig. 3-35-3 Eject Switch

#### Note :

When replacing the eject switch, be sure not to lose the spring.

### 3-36. POWER SWITCH REPLACEMENT

#### Removal

1. Loosen 2 silver screws and remove the 4 screws (A) and then remove the front panel as shown in figure 3-36-1.
2. Remove the ■ screws (B) and unsolder the wires of power switch as shown in figure 3-36-1.
3. Remove the Power Switch.

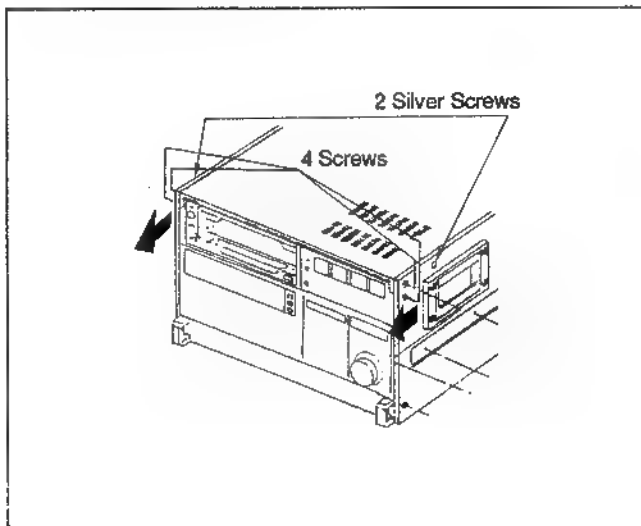


Fig. 3-36-1 Front Panel Removal

#### Installation

1. Follow the previous steps in reverse order.

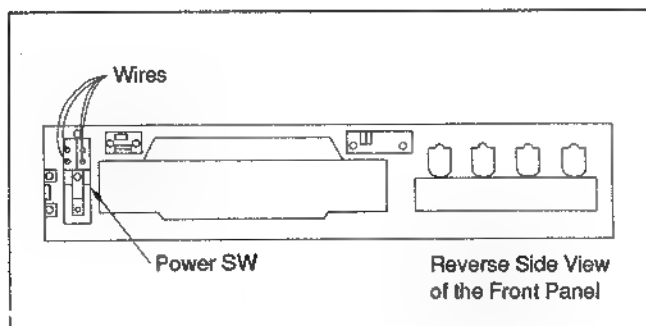


Fig. 3-36-2 Power Switch Removal

# ELECTRICAL ADJUSTMENTS

This section covers the electrical adjustment.

## N o t e :

1. Some preference switches are located on printed circuit boards within the unit. Be sure to turn off the power prior to opening the unit, before changing the position of any switch, and especially before removing or reinserting any circuit board.
2. Pre-heat the unit over two hours before the electrical adjustment.
3. After servicing and adjustment, see to it that all parts such as insulation barriers, insulators, shields, jumper wires, and wiring harnesses are properly re-installed as originally found.

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## SAFETY PRECAUTIONS

### GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

### LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M ohm and 5.2M ohm. When the exposed metal does not have a return path to the chassis, the reading must be

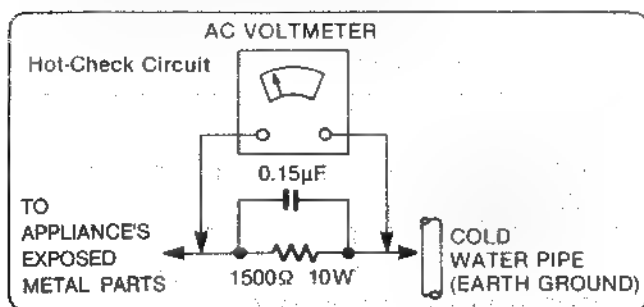


Figure 1

### LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k ohm, 10 watts resistor, in parallel with a 0.15µF capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

## ELECTROSTATICALLY SENSITIVE(ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

**CAUTION:** Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

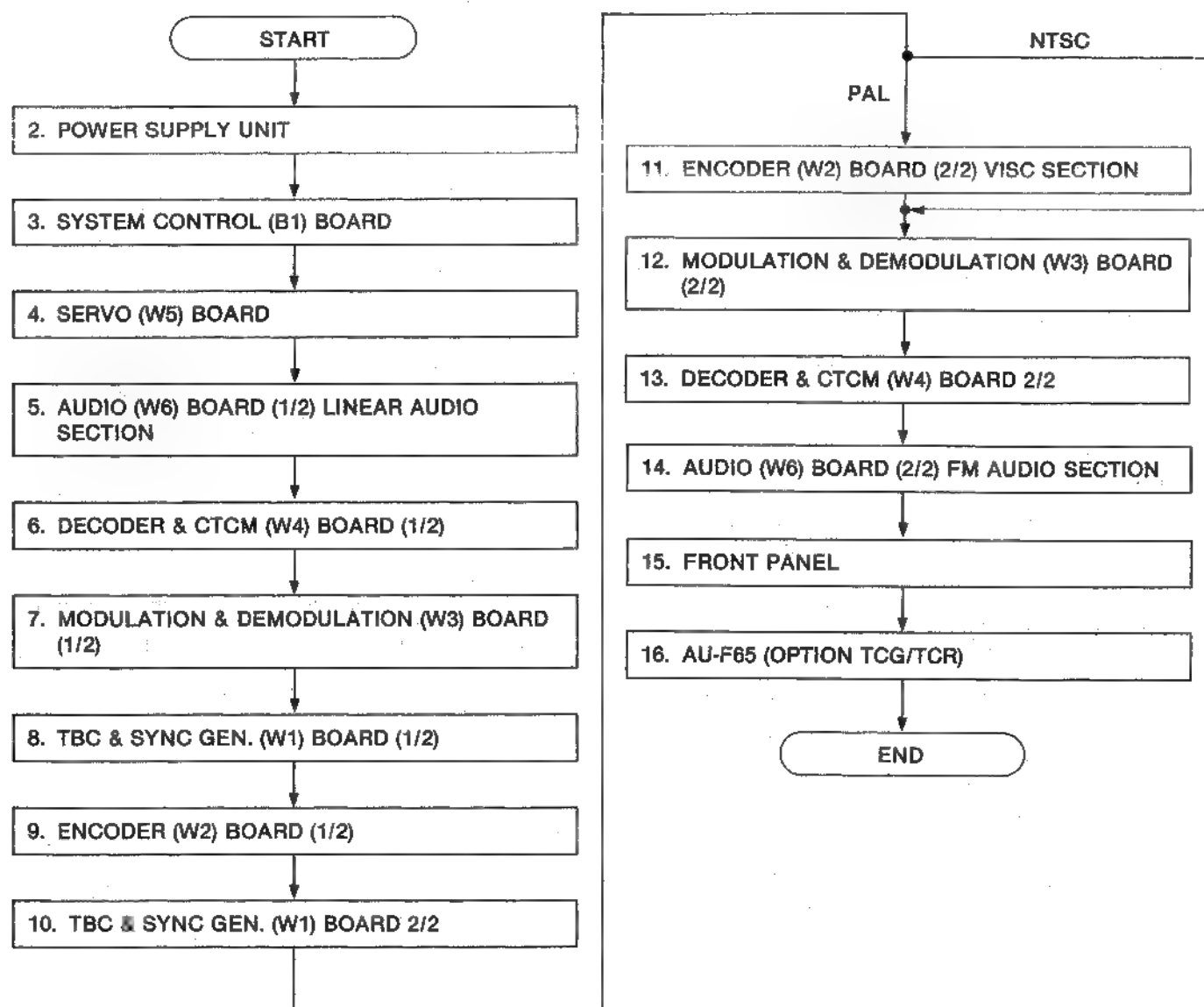
# 1. INFORMATION FOR ELECTRICAL ADJUSTMENT

This section describes adjustment procedures and methods of AU-65, AU-63 and AU-62. And this section is NTSC & PAL common used. Refer to this information before electrical adjustment.

## 1-1. MAIN ADJUSTMENT FLOWCHART

- 1) This Electrical Adjustment Procedures are common for the following 6 models, they are AU-65, AU-63 and AU-62 of NTSC and PAL. The correspond model is shown at the top of the each adjustment.
- 2) It is important to adjust each according to the correct steps which are shown as "Main Adjustment Flowchart" at below and "Section Adjustment Flowchart" at the top page of the each section.

## MAIN ADJUSTMENT FLOWCHART



## 1-2. RECOMMENDED TEST AND SERVICE EQUIPMENT

| PART NO.               | N A M E   | REMARK  |
|------------------------|---|---|
| TSG-130<br>(M-11 TYPE) | COMPOSITE / COMPONENT / YC / Y CTCM<br>SIGNAL GENERATOR | TEKTRONIX   |
| 1750                   | SCH METER (WFM, SCH, VECTOR etc.) FOR NTSC              | TEKTRONIX   |
| 1751                   | SCH METER (WFM, SCH, VECTOR etc.) FOR PAL               | TEKTRONIX   |
| -----                  | DIGITAL VOLT METER                                      |   |
| -----                  | FREQUENCY COUNTER                                       | 1mHz Range ~                                      |
| -----                  | DUAL TRACE OSCILLOSCOPE                                 | Frequency bandwidth more<br>than 100 MHz          |
| -----                  | VTVM (ACVM)      Frequency Band width<br>4Hz ~ 500KHz   | Sound Technology or<br>Audio Precision equivalent |
| -----                  | SPECTRUM ANALYZER                                       | Frequency bandwidth<br>10 Hz ~ 120 MHz            |
| -----                  | SINEWAVE SIGNAL GENERATOR                               | Frequency bandwidth<br>20 MHz                     |
| VFK0132                | TENTELOMETER  | TENTEL  |
| VFM7087EAG             | ALIGNMENT TAPE (※ 1) FOR NTSC MODEL                     | FOR AU-660/640/630/620 (NTSC)                     |
| VFM7180EG              | ALIGNMENT TAPE (※ 1) FOR PAL MODEL                      | FOR AU-650B/640/630/620 (PAL)                     |
|                        | ALIGNMENT TAPE (※ 2)                                    | PENDING   |
| ET-100YC               | S-VIDEO/BNC ADAPTOR                                     |   |
| VFK0601                | EXTENDER  | FOR B1 BOARD AND AU-F65                           |

### NOTE

- ※1. This alignment tape is used for AU-660 or 650B/640/630/620  
If the AU-65/63/62 is adjusted with this alignment tape (VFM7087EAG NTSC),  
(VFM7180EG PAL) the following adjustments can not be adjusted.

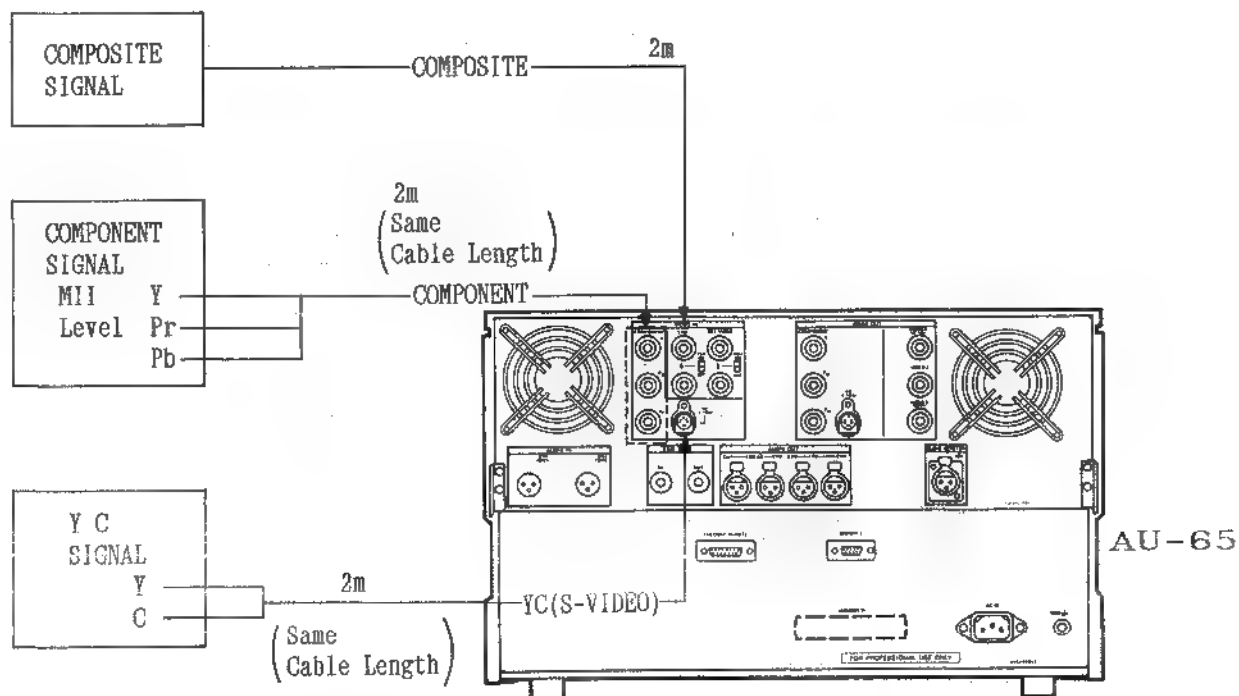
7-3            Y GROUP DELAY EQ ADJ.  
7-4            C GROUP DELAY EQ ADJ.  
7-9            C PLAYBACK FM B.P.F. FREQUENCY RESPONSE  
7-14-N or P   Y NL DE-EMPHASIS LIMITER LEVEL ADJ.  
7-16-N or P   C NL DE-EMPHASIS LIMITER LEVEL ADJ.  
7-35(A)or(B)   C REC FM B.P.F. FREQUENCY RESPONSE A  
10-3           CK2 PHASE ADJ.  
12-4-N or P   Y PLAYBACK EQ2 ADJ.  
12-10-N or P   Y HF LINEARITY ADJ.  
12-2~11-7     VISC ADJUSTMENT SECTION (PAL)

- ※2. This alignment tape is not available now.  
When the alignment tape is available for AU-65/63/62,  
Technical Information will be issued.

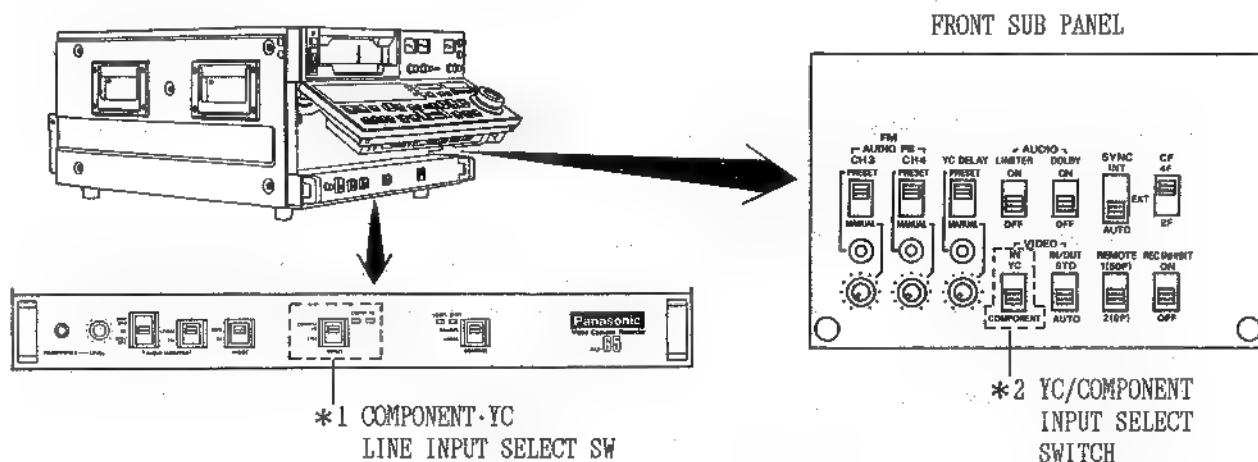


1-3. SIGNAL GENERATOR CONNECTION METHOD  
& INPUT SELECT SWITCH SETTING  
(FOR ELECTRICAL ADJUSTMENT)

CONNECTION METHOD (FOR AU-65)



INPUT SELECT SWITCH SETTING (FOR AU-65)



| INPUT SIGNAL NAME | *1                    | *2                 |
|-------------------|-----------------------|--------------------|
| COMPOSITE         | LINE POSITION         | -----              |
| COMPONENT         | COMPONENT/YC POSITION | COMPONENT POSITION |
| Y C               | COMPONENT/YC POSITION | YC POSITION        |

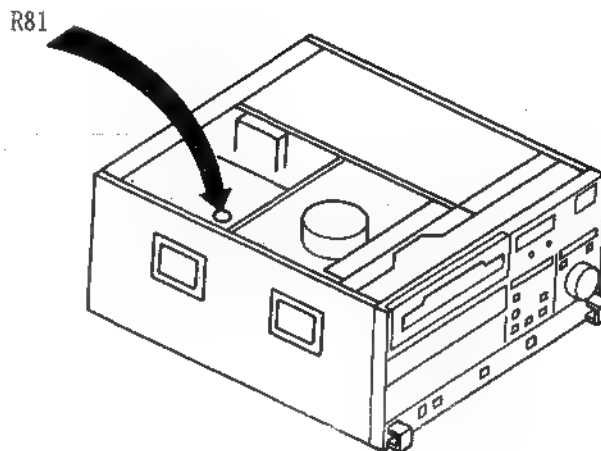
## 2. POWER SUPPLY UNIT

### 2-1. +5V ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

| TEST POINT      | MODE                                     | TAPE USED | M.EQ.                       | INPUT SIGNAL | ADJUSTMENT  |
|-----------------|--|-----------|-----------------------------|--------------|---|
| TP19<br>(on W5) | REC<br>(AU-65)<br><br>PLAY<br>(SU-62/63) | BLANKTAPE | Digital<br>Voltage<br>Meter | -----        | R81 ( +5V )<br>(Top Panel of the Power<br>Supply Box) |

#### Step 1.

1. Adjust R81 so that the voltage at TP19 is  $+5 \pm 0.2V$  (DC).



### 2-2. +7.5V ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( POWER UNIT )

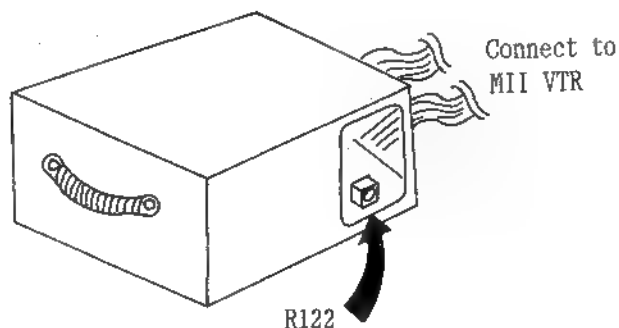
| TEST POINT               | MODE  | TAPE USED | M.EQ.         | INPUT SIGNAL | ADJUSTMENT  |
|--------------------------|-------|-----------|---------------|--------------|-------------|
| CP53-3<br>(+7.5V OUTPUT) | ----- | -----     | VOLTAGE METER | -----        | R122 (+7.5) |

#### Note:

This adjustment is done after repairing this power unit only.

#### Step 1.

1. Connect the Power Unit in outside of VTR.
2. Adjust R122 so that the voltage at CP53-3 (+7.5V output connector on

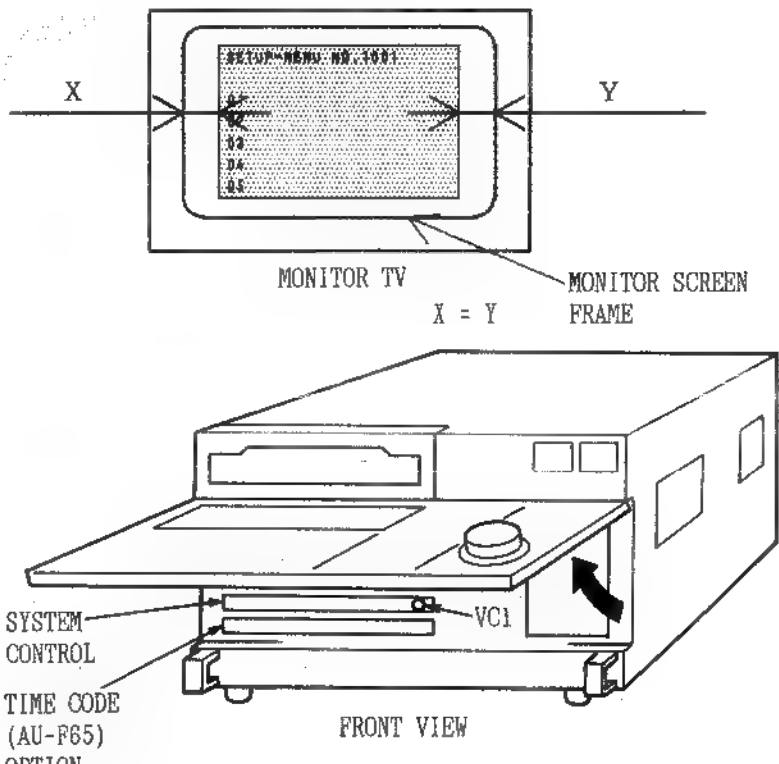


#### Specification

+7.5V terminal =  $8.2 \pm 0.002V$   
( $8.2 = 7.5 + 10\%$ )

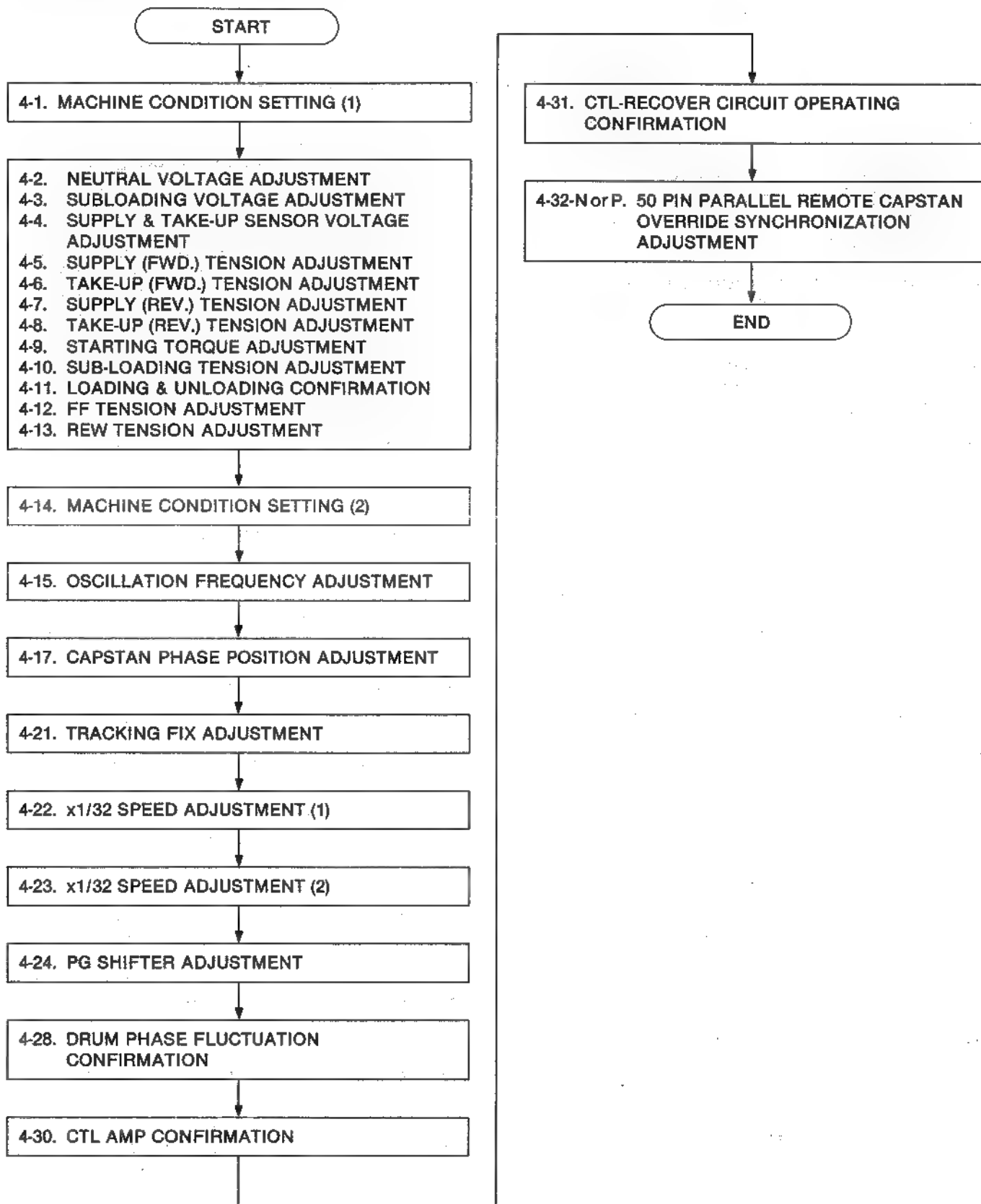
### 3. SYSTEM CONTROL (B1) BOARD

#### 3-1. SUPER IMPOSE HORIZONTAL POSITION ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

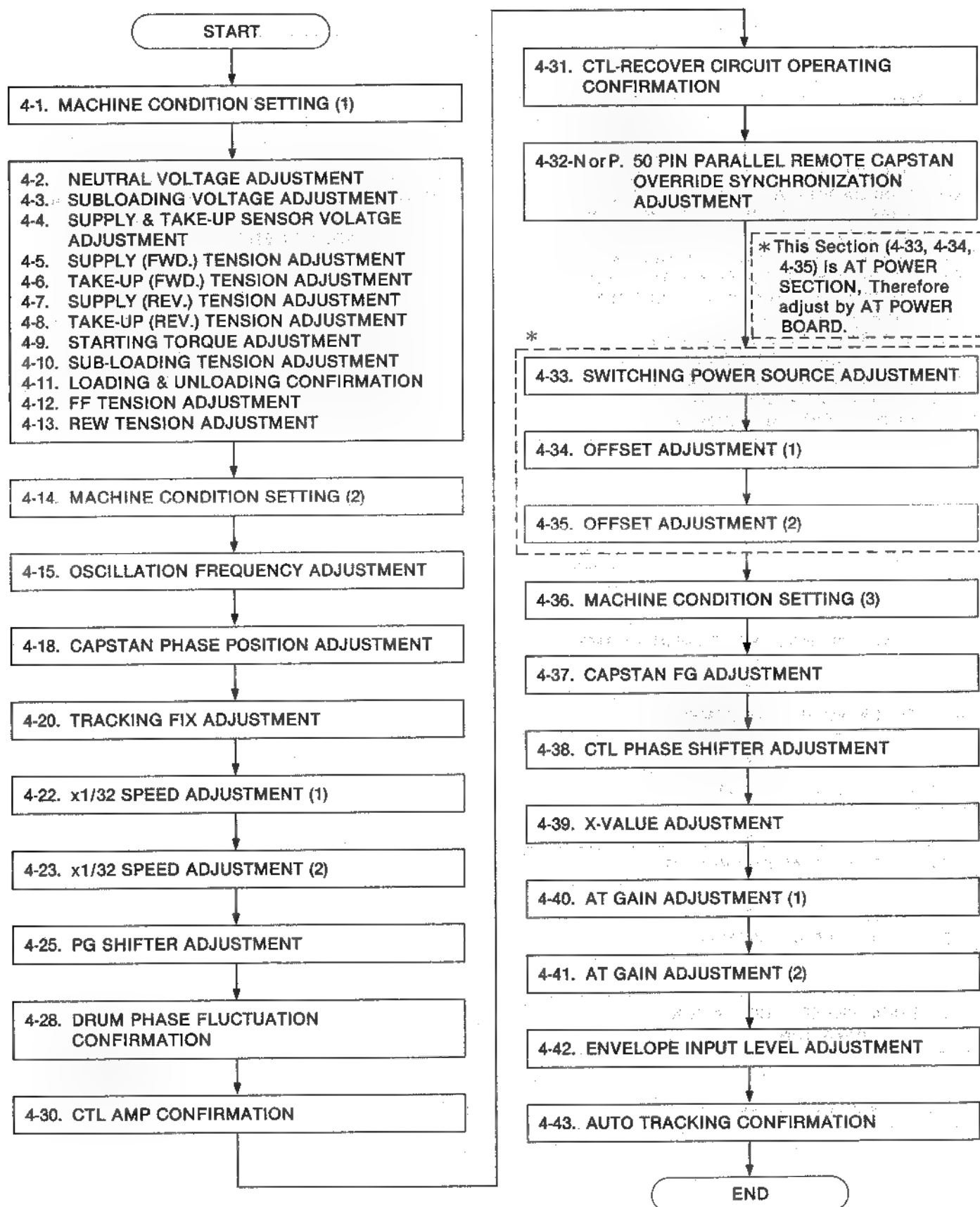
| TEST POINT  | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL | ADJUSTMENT           |
|---|-------|-----------|---|--------------|----------------------|
| VIDEO 3<br>OUT  | E - E | -----     | MONITOR<br>TV   | -----        | VC1 (SUPER POSITION) |
| <ol style="list-style-type: none"> <li>1. Open the Front Panel and press the MENU SW (SW3) on the System Control (B1) Board.</li> <li>2. Adjust VC1 so that the MENU Picture is in the center of the monitor screen.</li> </ol> |       |           |  <p>MONITOR TV</p> <p>MONITOR SCREEN FRAME</p> <p><math>X = Y</math></p> <p>SYSTEM CONTROL</p> <p>TIME CODE (AU-F65) OPTION</p> <p>VC1</p> <p>FRONT VIEW</p> |              |                      |

## 4. SERVO (W5) BOARD

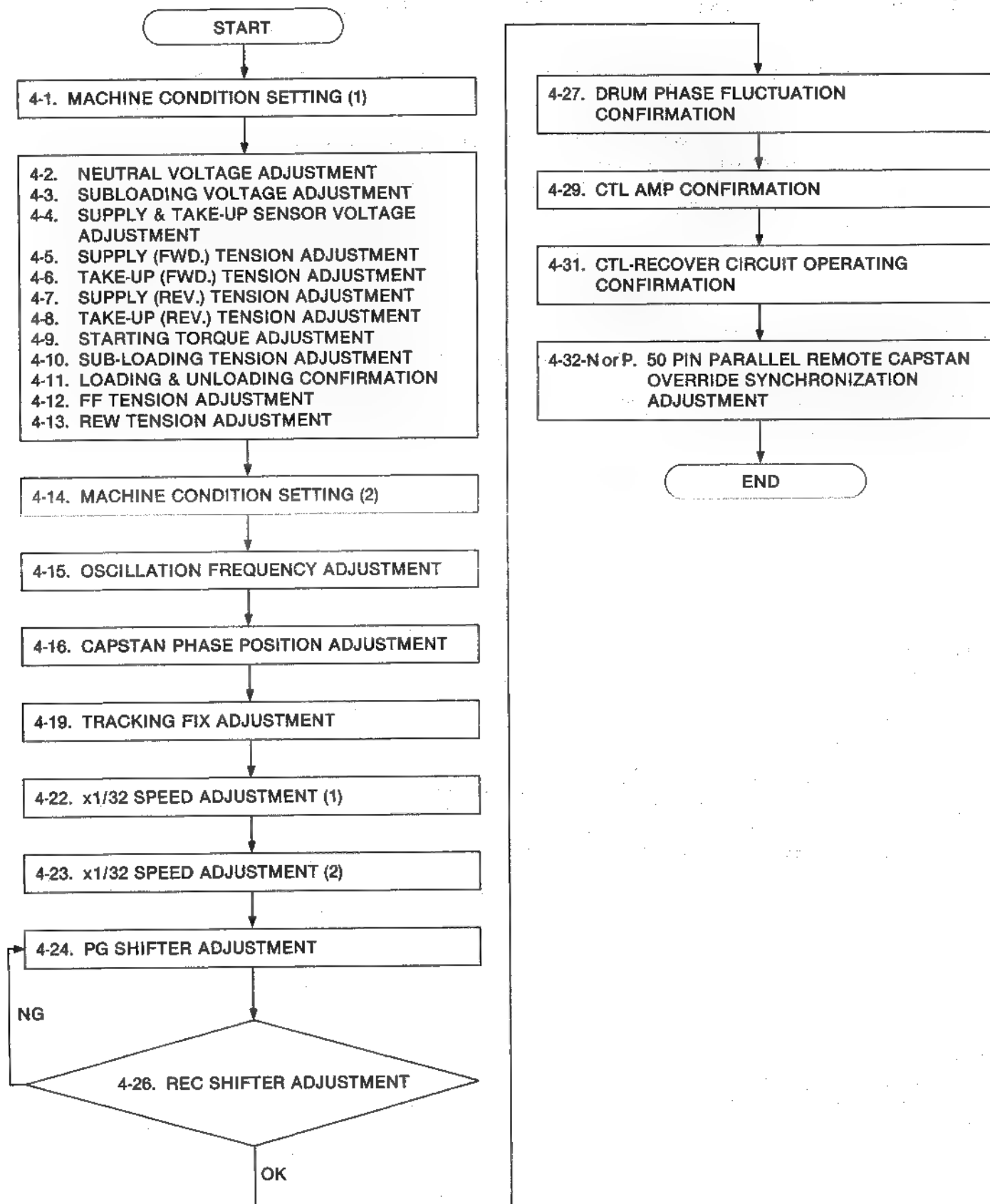
### SERVO SECTION (W5) FLOWCHART FOR AU-62



# SERVO SECTION (W5) FLOWCHART FOR AU-63



## SERVO SECTION (W5) FLOWCHART FOR AU-65



## 4. SERVO (W5) BOARD

### 4-1. MACHINE CONDITION SETTING (2)

1. When the Cassette Compartment is removed, the following conditions are required.

- 1) Connect a jumper wire between TP19 and TP20 on the Servo (W5) Board to prevent a tape slack.
- 2) Use the Dummy Plug (1) (VFK0361) to place the unit in the Loading Completion Mode.

2. SYNC SELECT (on Front Sub Panel) : AUTO Side

### 4-2. NEUTRAL VOLTAGE ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W5: SERVO )

| TEST POINT | MODE  | TAPE USED | M.EQ.                       | INPUT SIGNAL | ADJUSTMENT            |
|------------|-------|-----------|-----------------------------|--------------|-----------------------|
| TP303      | EJECT | -----     | Digital<br>Voltage<br>Meter | -----        | VR302 (S TENSION FIX) |
| TP304      |       |           |                             |              | VR303 (T TENSION FIX) |

**\*Note:**

Set the D.V.M to the  
mV range so you can  
read the  $\pm$  voltage.

- $\bigcirc$  VR302    TP303 =  $2.5 \pm 0.05V$  (DC)  
 $\bigcirc$  VR303    TP304 =  $2.5 \pm 0.05V$  (DC)

### 4-3. SUBLOADING VOLTAGE ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W5: SERVO )

| TEST POINT | MODE  | TAPE USED | M.EQ.                       | INPUT SIGNAL | ADJUSTMENT               |
|------------|-------|-----------|-----------------------------|--------------|--------------------------|
| TP312      | EJECT | -----     | Digital<br>Voltage<br>Meter | -----        | VR308 (SUB LOAD VOLTAGE) |

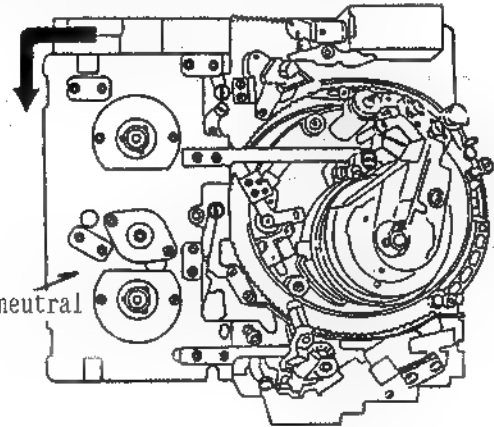
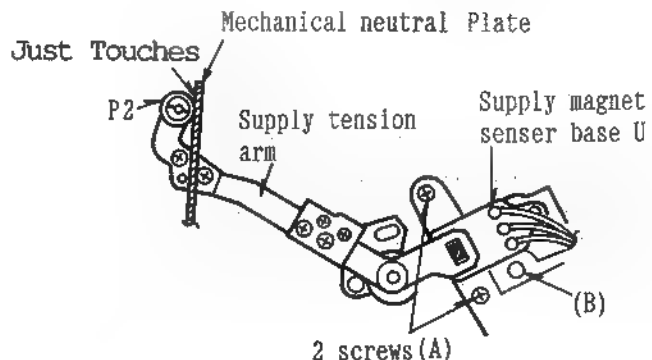
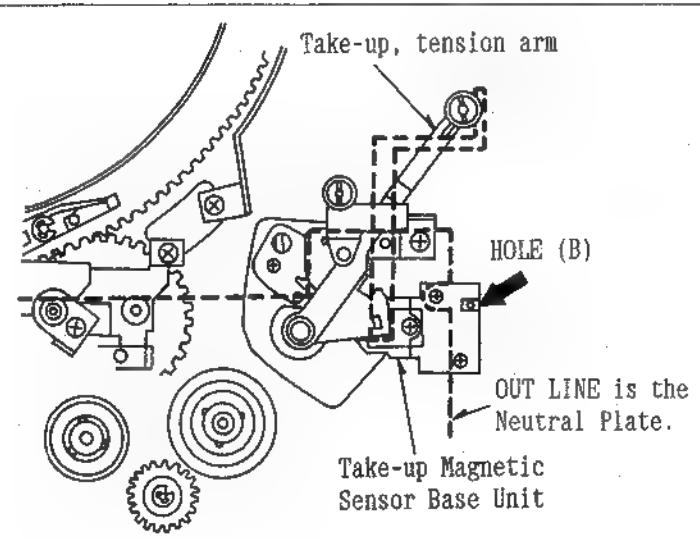
**\*Note:**

Set the D.V.M. to the  
mV range so you can  
read the  $\pm$  voltage.

SPECIFICATION :  $35 \pm 1mV$

#### 4-4. SUPPLY & TAKE-UP SENSOR VOLTAGE ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

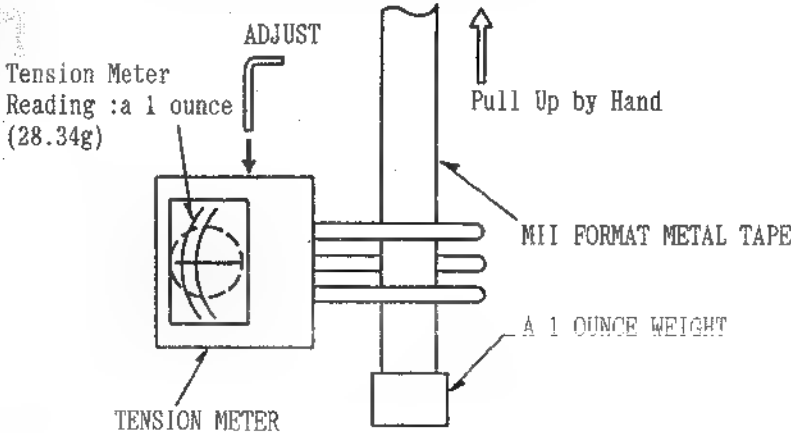
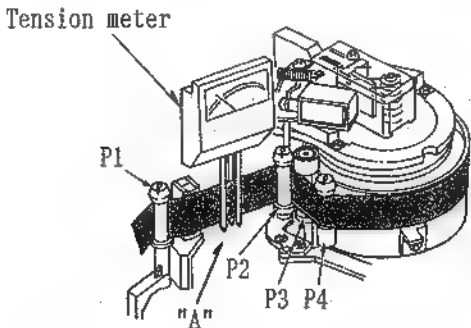
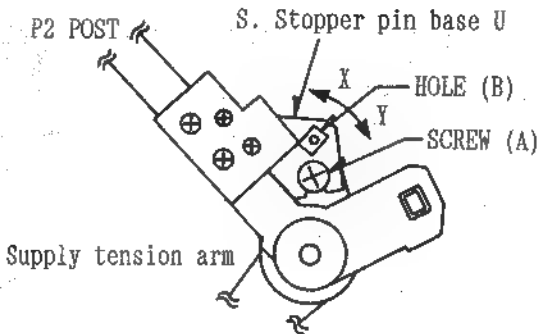
( W5 SERVO )

| TEST POINT   | MODE                            | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                             |
|--|---------------------------------|-----------|--|--------------|--|
| TP303<br>TP304   | EJECT<br>↓<br>STOP<br>(LOADING) | -----     | Digital<br>Voltage<br>Meter  | -----        | S & T MAGNETIC<br>SENSOR BASE<br>UNITS |
| Step 1.<br>MACHINE CONDITION   |                                 |           | 1. Remove the Cassette Compartment.<br>2. Refer to Set Up Conditions at the beginning of<br>this SECTION (SERVO - W5 Machine Condition 4-1).   |              |  |
| Step 2<br><br>1. Place the Mechanical Neutral Plate as<br>shown in figure.   |                                 |           |  <p>Mechanical neutral<br/>plate</p>  |              |  |
| Step 3.<br><br>1. D. V. M. : TP303<br>2. Confirm the DC voltage is 2500mV (2.5V)<br>± 50mV (DC).<br>3. If it is not, loosen the 2 screws and<br>insert the eccentric screw driver into<br>Hole (B).<br>4. Adjust the Supply Magnetic Sensor Base<br>Unit so that the DC voltage is 2500mV<br>(2.5V) ± 50mV (DC). |                                 |           |  <p>Just Touches</p> <p>Mechanical neutral Plate</p> <p>P2</p> <p>Supply tension<br/>arm</p> <p>Supply magnet<br/>sensor base U</p> <p>(B)</p> <p>2 screws (A)</p> |              |  |
| Step 4.<br><br>1. D. V. M. : TP304<br>2. Confirm the DC voltage is 2500mV (2.5V)<br>± 50mV (DC).<br>3. If it is not, insert the eccentric screw<br>driver into Hole (B).<br>4. Adjust the Take-up Magnetic Sensor Base<br>Unit so that the DC voltage is 2500mV<br>(2.5V) ± 50mV (DC).                           |                                 |           |  <p>Take-up, tension arm</p> <p>HOLE (B)</p> <p>OUT LINE is the<br/>Neutral Plate.</p> <p>Take-up Magnetic<br/>Sensor Base Unit</p>                                |              |  |



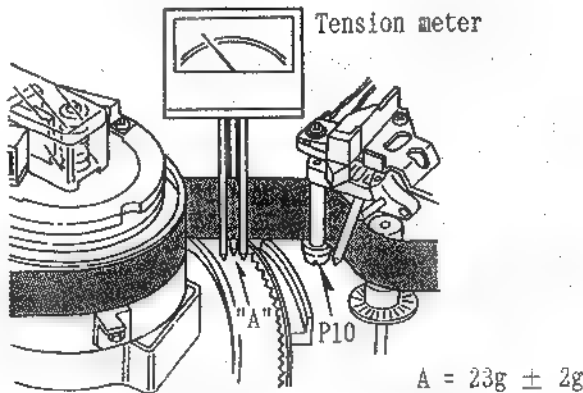
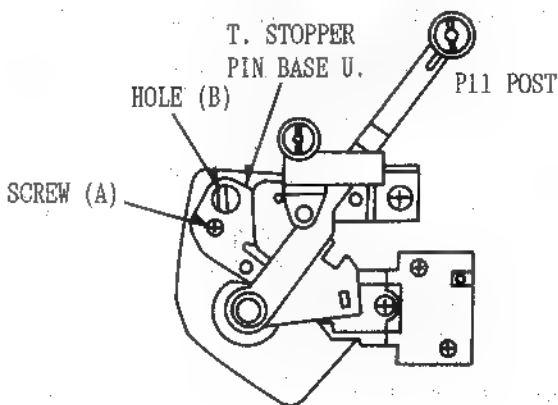
# 4-5. SUPPLY (FWD.) TENSION ADJUSTMENT (FOR AU-65/63/62 NTSC & PA1)

( W5 SERVO )

| TEST POINT  | MODE | TAPE USED                                     | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                         |
|---|------|---|--|--------------|------------------------------------|
| "A" (P1 ~ P2)   | PLAY | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | TENSION<br>METER   | -----        | SUPPLY<br>STOPPER PIN BASE<br>UNIT |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   |      |   | <p>1. Remove the Cassette Compartment.</p> <p>2. Refer to Set Up Conditions at the beginning of this SECTION (SERVO - W5 Machine Condition 4-1).</p> |              |                                    |
| <p>Step 2.</p> <p>Calibration of Tentelometer</p> <p>1. Before performing the tape tension adjustment. The Tension Meter should be checked as follows.</p> <p>2. Use MII Metal Tape and a 1 ounce weight.</p> <p>3. Pull up a tape by hand as shown in figure.</p> <p>4. Adjust a hex screw on the Tension Meter so that the tension meter reading is set for a 1 ounce (28.34g).</p> |      |   |   |              |                                    |
| <p>STEP 3.</p> <p>1. Insert the tension meter to Portion "A" that is between P1 post and P2 post.</p> <p>2. Mode : PLAY</p> <p>3. Set the tension for "A" = <math>23g \pm 2g</math>.</p>  |      |   |  <p>A = <math>23g \pm 2g</math></p>                              |              |                                    |
| <p>Step 4.</p> <p>1. If it is not within specification, loosen the screw (A).</p> <p>2. Insert the eccentric screw driver into Hole (B).</p> <p>3. Adjust the position of S. Stopper Pin Base Unit so that the tension is <math>23g \pm 2g</math> at portion "A".</p> <p>4. Finally, tighten the screw (A).</p> <p>5. Reconfirm the tension after the screw (A) is tightened.</p>     |      |   |    |              |                                    |

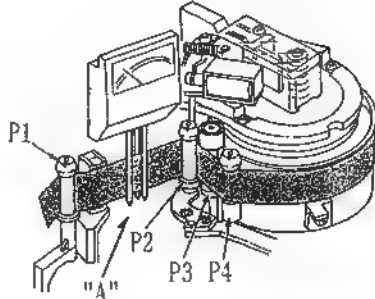
# 4-6. TAKE-UP (FWD.) TENSION ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED                                     | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                           |
|--|------|---|--|--------------|--------------------------------------|
| "A" (P9 ~ P10)   | PLAY | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | TENSION<br>METER   | -----        | TAKE-UP<br>STOPPER PIN BASE<br>UNITS |
| Step 1.<br>MACHINE CONDITION   |      |   | 1. Remove the Cassette Compartment.<br>2. Refer to Set Up Conditions at the beginning of<br>this SECTION (SERVO - W5 Machine Condition 4-1). |              |                                      |
| Step 2.<br><br>1. Insert the tension meter to Portion "A"<br>that is between P9 post and P10 post.<br>2. Mode : PLAY<br>3. Confirm that the tension meter indicates<br>$23g \pm 2g$ .  |      |   |   |              |                                      |
| Step 3.<br><br>1. If it is not within specification,<br>loosen the screw (A).<br>2. Insert the eccentric screw driver into<br>Hole (B).<br>3. Adjust the position of T. Stopper Pin<br>Base Unit so that the tension is<br>$23g \pm 2g$ .<br>4. Finally, tighten the screw (A).<br>5. Reconfirm the tension after the screw<br>(A) is tightened. |      |   |    |              |                                      |

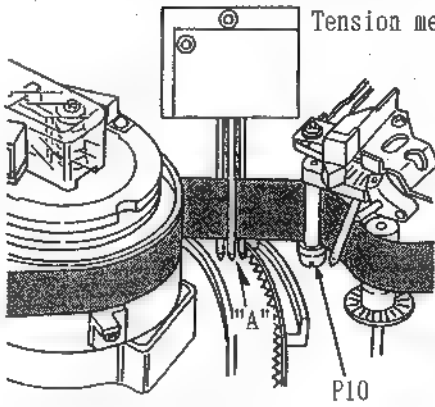
#### 4-7. SUPPLY (REV.) TENSION ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W5 SERVO )

| TEST POINT   | MODE             | TAPE USED                                     | M.EQ.  | INPUT SIGNAL | ADJUSTMENT              |
|--|------------------|---|--|--------------|-------------------------|
| "A" (P1 ~ P2)  | SHTL $\times$ -1 | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | TENSION<br>METER   | -----        | VR309 (S. REV. TENSION) |
| Step 1.<br>MACHINE CONDITION   |                  |   | 1. Refer to Set Up Conditions at the beginning of this SECTION (SERVO - W5 Machine Condition 4-1).   |              |                         |
| Step 2.<br><br>1. Insert the tension meter to Portion "A" that is between P1 post and P2 post.<br>2. Mode : SHTL $\times$ -1 (See Above)<br>3. Confirm that the tension meter indicates $25 \pm 1$ (g).<br>4. If it is not within specification, adjust VR309 so that the tension is $25 \pm 1$ (g). |                  |   |  <p style="text-align: center;">A = <math>25 \pm 1</math> (g)</p> |              |                         |

#### 4-8. TAKE-UP (REV.) TENSION ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W5 SERVO )

| TEST POINT  | MODE             | TAPE USED                                     | M.EQ.   | INPUT SIGNAL | ADJUSTMENT              |
|---|------------------|---|---|--------------|-------------------------|
| "A" (P9 ~ P10)  | SHTL $\times$ -1 | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | TENSION<br>METER  | -----        | VR305 (T. REV. TENSION) |
| Step 1.<br>MACHINE CONDITION  |                  |   | 1. Refer to Set Up Conditions at the beginning of this SECTION (SERVO - W5 Machine Condition 4-1).                                      |              |                         |
| Step 2.<br><br>1. Insert the tension meter to Portion "A" that is between P9 post and P10 post.<br>2. Mode : SHTL $\times$ -1 (See Above)<br>3. Confirm that the tension meter indicates 30 ~ 35 (g).<br>4. If it is not within specification, adjust VR309 so that the tension is 30 ~ 35 (g). |                  |   |  <p style="text-align: center;">A = 30 ~ 35 (g)</p> |              |                         |

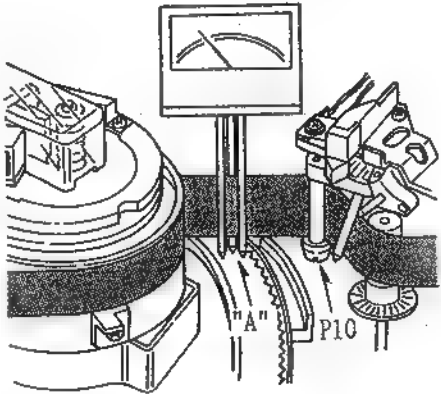
#### 4-9. STARTING TORQUE ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W5 SERVO )

| TEST POINT  | MODE | TAPE USED                                     | M.EQ.  | INPUT SIGNAL | ADJUSTMENT        |
|---|------|---|--|--------------|-------------------|
| TP302<br>(HOT)<br>TP310<br>(GND)  | PLAY | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | Digital<br>Volt<br>Meter   | -----        | VR301 (START TRQ) |
| Step 1.<br><br>MACHINE CONDITION  |      |   | Refer to Set Up Conditions at the beginning of this<br>SECTION (SERVO - W5 Machine Condition 4-1). |              |                   |
| Note:<br>Measure the voltage after the voltage is<br>stabilized.<br><br>1. Adjust VR301 so that the voltage at<br>TP302 is $-200\text{mV} \pm 5\text{mV}$ . |      |   | $\bigcirc$ VR301<br><br>$(\text{TP302}) - (\text{TP310}) = -200\text{mV} \pm 5\text{mV}$           |              |                   |

#### 4-10. SUB-LOADING TENSION ADJUSTMENT (FOR AU-65-63/62 NTSC & PAL)

( W5 SERVO )

| TEST POINT  | MODE | TAPE USED                                     | M.EQ.  | INPUT SIGNAL | ADJUSTMENT           |
|---|------|---|--|--------------|----------------------|
| "A" (P9 ~ P10)  | PLAY | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | TENSION<br>METER   | -----        | VR307 (LOAD TENSION) |
| Step 1.<br><br>MACHINE CONDITION  |      |   | 1. Refer to Set Up Conditions at the beginning of<br>this SECTION (SERVO - W5 Machine Condition 4-1).<br>2. Connect a jumper wire between TP309 and TP311 to make a<br>sub-loading condition after the tape is Loaded. |              |                      |
| Step 2.<br><br>1. Insert the tension meter to Portion "A"<br>that is between P9 post and P10 post.<br><br>2. Mode : PLAY<br><br>3. Confirm that the tension meter indicates<br>8 ~ 10 (g).<br><br>4. If it is not within the specification,<br>adjust VR307 so that the tension is<br>8 ~ 10 (g).<br><br>5. Finally, disconnect the jumper wire<br>between TP309 and TP311. |      |   | <div style="text-align: center;"> Tension meter<br/>  <br/> <math>\bigcirc</math> VR307<br/><br/> A = 8 ~ 10 (g) </div>            |              |                      |

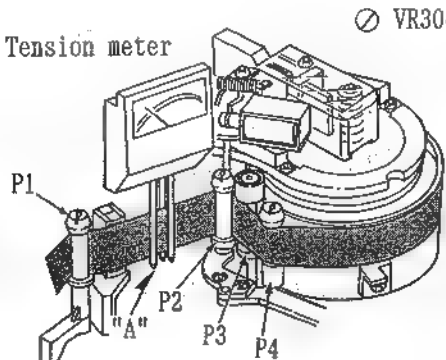
#### 4-11. LOADING & UNLOADING CONFIRMATION (FOR AU-65/63/62 NTSC & PAL)

( W5 SERVO )

| TEST POINT  | MODE                 | TAPE USED             | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|---|----------------------|-----------------------|--|--------------|------------|
| -----   | STOP<br>↓ ↑<br>EJECT | BLANK 90 min.<br>TAPE | -----  | -----        | -----      |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Confirm that the tape is going to Loading mode and Unloading mode properly when the unit is placed in STOP and EJECT at several time.</li> <li>2. Power Switch : OFF (EJECT mode)</li> <li>3. Power Switch : ON</li> <li>4. Confirm STEP 1 again.</li> </ol> |                      |                       | <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. If it is not, readjust the following items. <ol style="list-style-type: none"> <li>A. Section 3 - 2 (Sub - Loading Voltage Adjustment)</li> <li>B. Section 3 - 9 (Sub - Loading Tension Adjustment)</li> </ol> </li> <li>2. Repeat STEP 2.</li> </ol> |              |            |

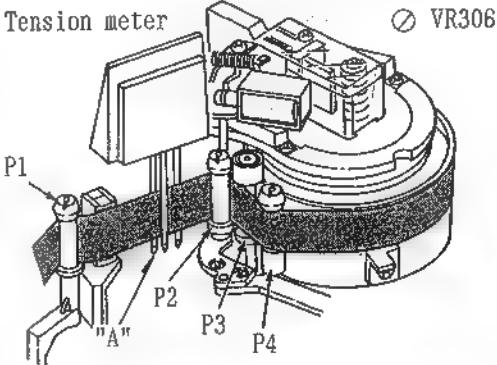
#### 4-12. FF TENSION ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED                                     | M.EQ.   | INPUT SIGNAL | ADJUSTMENT            |
|--|------|---|---|--------------|-----------------------|
| "A" (P1 ~ P2)  | FF   | BLANK 90 min.<br>TAPE<br>BEGINNING<br>PORTION | TENSION<br>METER  | -----        | VR304 (S. FF TENSION) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Insert the tension meter to Portion "A" that is between P1 post and P2 post.</li> <li>2. Mode : FF</li> <li>3. Confirm that the tension meter indicates 15 ~ 20 (g).</li> <li>4. If it is not within the specification, adjust VR304 so that the tension is 15 ~ 20 (g).</li> </ol> |      |   |  <p style="text-align: center;">A = 15 ~ 20 (g)</p> |              |                       |

#### 4-13. REW TENSION ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W5 SERVO )

| TEST POINT  | MODE | TAPE USED                                       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT             |
|---|------|---|--|--------------|------------------------|
| "A" (P1 ~ P2)   | REW  | BLANK 90 min.<br>TAPE<br>END OF TAPE<br>PORTION | TENSION<br>METER   | -----        | VR306 (S. REW TENSION) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Insert the tension meter to Portion "A" that is between P1 post and P2 post.</li> <li>2. Mode : REW</li> <li>3. Confirm that the tension meter indicates 40 ~ 50 (g).</li> <li>4. If it is not within specification, adjust VR306 so that the tension is 40 ~ 50 (g).</li> </ol> |      |   |  <p>A = 40 ~ 50 (g)</p> |              |                        |

#### 4-14. MACHINE CONDITION SETTING (2) (FOR AU-63 AUTO TRACKING)

( W5 AT )

Set the switches on the Front Sub Panel as follows except special condition.

1. MODE SELECT : EE (FOR AU-65)
2. COLOR FRAMING : 2FMode
3. AT POWER ----- When servo section is adjusted, for AU-63 please disconnect the connector P10 on the AT Power Board to preset the piezo head for fix AT.

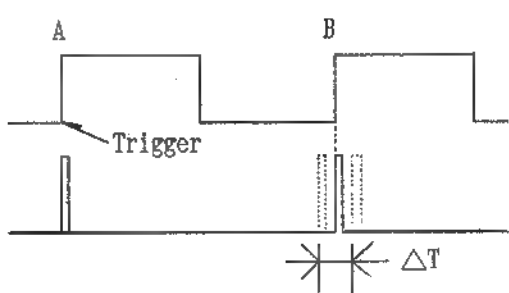
#### 4-15. OSCILLATION FREQUENCY ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED   | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|--|------|---|--|--------------|------------|
| TP103  | PLAY | PRE-RECORDED<br>90 min. TAPE<br>(MIDDLE<br>PORTION) | FREQUENCY<br>COUNTER   | -----        | VC101      |
| Step 1.<br>MACHINE CONDITION   |      |   | Refer to Set Up Conditions at 4-14 Machine<br>Condition Setting (2). |              |            |
| NTSC :    ⌀ VC101                      SPECIFICATION        :    3579545 ± 50 [Hz]<br>PAL    :    ⌀ VC101                      SPECIFICATION        :    2985940 ± 50 [Hz] |      |   |  |              |            |

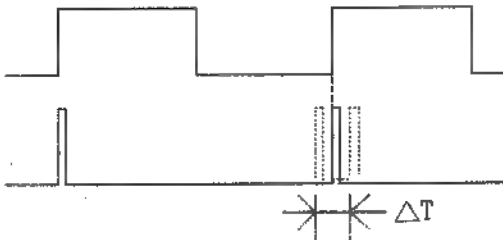
#### 4-16 CAPSTAN PHASE POSITION ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED                         | M.EQ.  | INPUT SIGNAL | ADJUSTMENT       |
|--|------|-----------------------------------|--|--------------|------------------|
| TP105<br>TP102   | REC  | BLANK TAPE<br>(MIDDLE<br>PORTION) | OSCILLOSCOPE   | COLOR BAR    | VR103 (CAP REF.) |
| Step 1.<br>MACHINE CONDITION   |      |                                   | Refer to Set Up Conditions at 4-14 Machine<br>Condition Setting (2). |              |                  |
| <div style="text-align: center;">  <p>⊙ VR103    <math>\Delta T = 0 \pm 70</math> [<math>\mu</math>sec]</p> <p>Trigger = "A" point of TP105</p> </div> |      |                                   |  |              |                  |

#### 4-17. CAPSTAN PHASE POSITION ADJUSTMENT (FOR AU-62 NTSC & PAL)

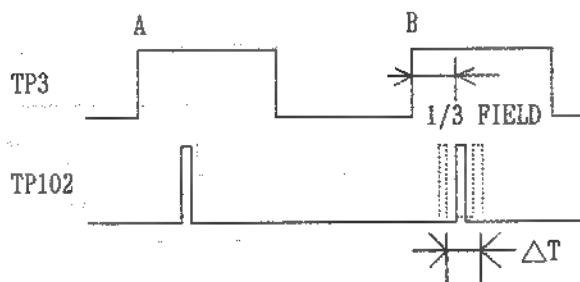
( W5 SERVO )

| TEST POINT   | MODE | TAPE USED   | M.EQ.   | INPUT SIGNAL | ADJUSTMENT       |
|--|------|---|---|--------------|------------------|
| TP105<br>TP102   | PLAY | PRE-RECORDED<br>90 min. TAPE<br>(MIDDLE<br>PORTION) | OSCILLOSCOPE  | -----        | VR103 (CAP REF.) |
| Step 1.<br>MACHINE CONDITION   |      |   | Refer to Set Up Conditions at 4-14 Machine<br>Condition Setting (2) |              |                  |
| <div><div><div>TP105</div><div>TP102</div></div><div><div>A</div><div>B</div></div><div>⊙ VR103    <math>\Delta T = 0 \pm 70 [\mu\text{sec}]</math></div><div>Trigger = "A" point of TP105</div></div> |      |   |   |              |                  |

#### 4-18. CAPSTAN PHASE POSITION ADJUSTMENT (FOR AU-63 NTSC & PAL)

( W5 SERVO )

| TEST POINT                   | MODE | TAPE USED   | M.EQ.  | INPUT SIGNAL | ADJUSTMENT       |
|------------------------------|------|---|--|--------------|------------------|
| TP3<br>TP102                 | PLAY | PRE-RECORDED<br>90 min. TAPE<br>(MIDDLE<br>PORTION) | OSCILLOSCOPE   | -----        | VR103 (CAP REF.) |
| Step 1.<br>MACHINE CONDITION |      |   | Refer to Set Up Conditions at 4-14 Machine<br>Condition Setting (2). |              |                  |



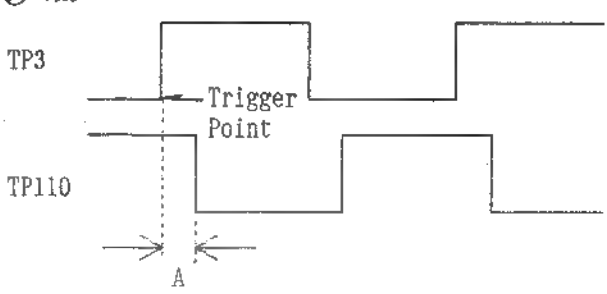
⊙ VR103     $\Delta T = 0 \pm 70 [\mu\text{sec}]$

Trigger = "A" point of TP3



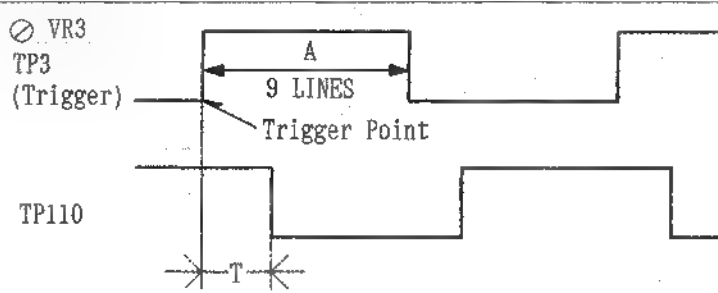
# 4-19. TRACKING FIX ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W5 SERVO )

| TEST POINT  | MODE           | TAPE USED  | M.EQ.   | INPUT SIGNAL           | ADJUSTMENT      |
|---|----------------|------------|---|------------------------|-----------------|
| TP3<br>TP110  | SELF<br>REC/PB | BLANK TAPE | OSCILLOSCOPE  | COMPONENT<br>COLOR BAR | VR3 (R/P TRACK) |
| Step 1.<br><br>MACHINE CONDITION                        |                |            | 1. FRONT PANEL TRACKING VR : DETENT POSITION<br>2. Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).                    |                        |                 |
| Step 2.<br><br>SCOPE CH1 : TP3 (Trigger)<br>CH2 : TP110 |                |            | <div> <p>⊙ VR3</p>  <p>A = 0 ± 100 [μsec]</p> </div> |                        |                 |

# 4-20. TRACKING FIX ADJUSTMENT (FOR AU-63 NTSC & PAL)

( W5 SERVO )

| TEST POINT  | MODE | TAPE USED                        | M.EQ.   | INPUT SIGNAL | ADJUSTMENT  |
|---|------|----------------------------------|---|--------------|---|
| TP3<br>TP110  | PLAY | ALIGNMENT<br>TAPE<br>(COLOR BAR) | OSCILLOSCOPE  | -----        | VR3 (R/P TRACK)<br><br>R/P TRACK is VR's name This is used for AT |
| Step 1.<br><br>MACHINE CONDITION  |      |                                  | Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).   |              |   |
| Step 2.<br><br>SCOPE CH1 : TP3 (Trigger)<br>CH2 : TP110<br><br>1. Set the sweep range of scope so that the "A" width measure across 9 Lines on the oscilloscope face. |      |                                  | <div> <p>⊙ VR3</p>  <p>T = 3 ± 0.1 LINES (A : T = 9 : 3)</p> </div> |              |   |

4-21. TRACKING FIX ADJUSTMENT (FOR AU-62 NTSC & PAL)  
( W5 SERVO )

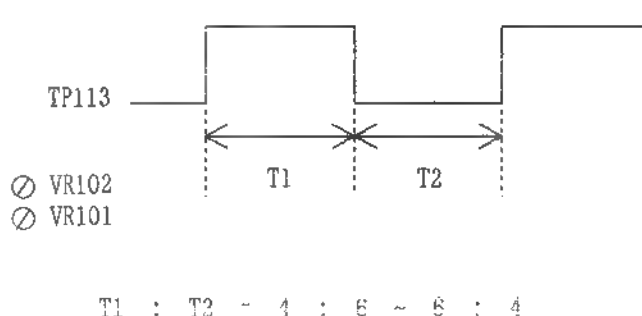
| TEST POINT  | MODE | TAPE USED         | M.EQ.                                     | INPUT SIGNAL | ADJUSTMENT      |
|---|------|-------------------|---|--------------|-----------------|
| TP3<br>TP110  | PLAY | ALIGNMENT<br>TAPE | OSCILLOSCOPE                              | -----        | VR3 (R/P TRACK) |
| Step 1.<br>MACHINE CONDITION                            |      |                   | FRONT PANEL TRACKING VR : DETENT POSITION |              |                 |
| Step 2.<br><br>SCOPE CH1 : TP3 (Trigger)<br>CH2 : TP110 |      |                   | <p>⊙ VR3</p> <p>ΔT = 0 ± 100 [μsec]</p>   |              |                 |

4-22.  $\times 1/32$  SPEED ADJUSTMENT (1)  
(FOR AU-65/63/62 NTSC & PAL) ( W5 SERVO )

| TEST POINT                             | MODE          | TAPE USED   | M.EQ.   | INPUT SIGNAL | ADJUSTMENT     |
|--|---------------|---|---|--------------|----------------|
| TP115                                  | SHTL<br>×1/32 | PRE-RECORDED<br>90 min. TAPE<br>(MIDDLE<br>PORTION) | FREQUENCY<br>COUNTER                                | -----        | VR101 (1/32 C) |
| Step 1.<br>FREQUENCY COUNTER CONDITION |               |   | SW : LOW and L. P. F.                               |              |                |
| Step 2.<br>SPECIFICATION               |               |   | ⊙ VR101<br>NTSC 67.5 ± 5 [Hz]<br>PAL 56.25 ± 5 [Hz] |              |                |

4-23.  $\times 1/32$  SPEED ADJUSTMENT (2)  
(FOR AU-65/63/62 NTSC & PAL)

( W5 SERVO )

| TEST POINT  | MODE                  | TAPE USED   | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                       |
|---|-----------------------|---|---|--------------|----------------------------------|
| TP113<br>TP115  | SHTL<br>$\times 1/32$ | PRE-RECORDED<br>90 min. TAPE<br>(MIDDLE<br>PORTION) | OSCILLOSCOPE  | -----        | VR102 (1/32 A)<br>VR101 (1/32 C) |
| Step 1.<br>MACHINE CONDITION  |                       |   | Refer to Set Up Conditions at 4-14 Machine<br>Condition Setting (2).  |              |                                  |
| Step 2.<br><br>1. SCOPE : TP113<br><br>2. Confirm that the waveform is duty 50%.  |                       |   |  <p>TP113</p> <p>○ VR102<br/>○ VR101</p> <p>T1 T2</p> <p>T1 : T2 = 4 : 6 ~ 6 : 4</p> |              |                                  |
| Step 3.<br><br>1. If it is not within specification,<br>adjust VR102 so that T1 : T2 = 5 : 5<br>2. After that adjust VR101 (Section 4-22<br>$\times 1/32$ SPEED ADJ.(1)).<br>3. Reconfirm the Step 2. |                       |   |   |              |                                  |

#### 4-24. PG SHIFTER ADJUSTMENT (FOR AU-65/62 NTSC & PAL)

( W5 SERVO )

| TEST POINT  | MODE | TAPE USED              | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                   |
|---|------|------------------------|--|--------------|------------------------------|
| TP13<br>TP7   | PLAY | ALIGNMENT<br>COLOR BAR | OSCILLOSCOPE   | -----        | SW 1 (FINE)<br>SW 2 (COARSE) |
| Step 1.<br><br>Note:<br>Confirm that the Y RF envelope is maximized at TP301 on W3 Board.<br>(The mechanical interchangeability should be completed.)<br><br>1. Adjust SW1 and SW2 so that the $T = 2.75 \pm 0.1$ [H] as shown in figure. |      |                        | <div style="text-align: center;">             SW1, SW2<br/><br/>             First Field<br/> </div> |              |                              |

#### 4-25. PG SHIFTER ADJUSTMENT (FOR AU-63 NTSC & PAL)

( W5 SERVO )

| TEST POINT  | MODE | TAPE USED              | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                   |
|---|------|------------------------|--|--------------|------------------------------|
| TP13<br>TP702   | PLAY | ALIGNMENT<br>COLOR BAR | OSCILLOSCOPE   | -----        | SW 1 (FINE)<br>SW 2 (COARSE) |
| Step 1.<br>MACHINE CONDITION  |      |                        | Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).                                    |              |                              |
| Step 2.<br><br>Note:<br>Confirm that the Y RF envelope is maximized at TP301 on W3 Board.<br>(The mechanical interchangeability should be completed.)<br><br>1. Adjust SW1 and SW2 so that the $T = 2.75 \pm 0.1$ [H] as shown in figure. |      |                        | <div style="text-align: center;">             SW1, SW2<br/><br/>             First Field<br/> </div> |              |                              |

#### 4-26. REC SHIFTER ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED  | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT      |
|--|------|------------|--|------------------------|-----------------|
| TP13<br>TP7  | REC  | BLANK TAPE | OSCILLOSCOPE   | COMPONENT<br>COLOR BAR | VR1 (REC SHIFT) |
| Step 1.<br>MACHINE CONDITION   |      |            | 1. Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).<br>2. INPUT SELECT : COMPONENT<br>(Pull Out Drawer & Front Sub Panel) |                        |                 |
| Step 2.<br><br>SCOPE CH1 : TP13<br>SCOPE CH2 : TP7<br><br>1. Adjust VR1 so that the $T = 2.75 \pm 0.1$ [H] as shown in figure. |      |            | <div style="text-align: center;"> <p>⊙ VR1</p> <p><math>T = 2.75 \pm 0.1</math> [H]</p> </div>   |                        |                 |

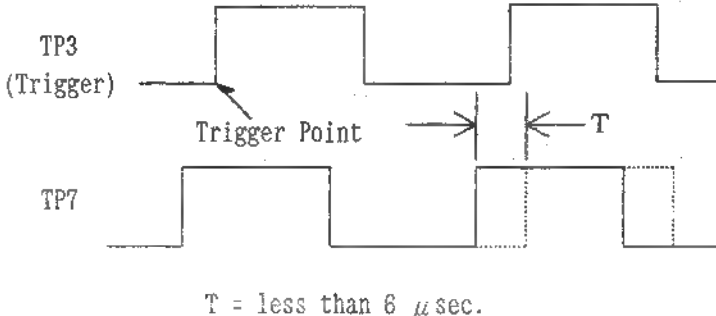
#### 4-27. DRUM PHASE FLUCTUATION CONFIRMATION (FOR AU-65 NTSC & PAL)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED  | M.EQ.   | INPUT SIGNAL           | ADJUSTMENT |
|--|------|------------|---|------------------------|------------|
| TP3<br>TP7   | REC  | BLANK TAPE | OSCILLOSCOPE  | COMPONENT<br>COLOR BAR | -----      |
| Step 1.<br>MACHINE CONDITION   |      |            | Refer to Set up Conditions at 4-14 Machine Condition Setting (2).                                   |                        |            |
| Step 2.<br><br>SCOPE CH1 : TP3 (Trigger)<br>SCOPE CH2 : TP7<br><br>1. Trigger the scope at rising edge of TP3.<br>2. Confirm that the T fluctuation is less than $6 \mu\text{sec}$ as shown in figure. |      |            | <div style="text-align: center;"> <p><math>T = \text{less than } 6 \mu\text{sec.}</math></p> </div> |                        |            |
| Step 3.<br><br>1. If it is not with in specification, readjust from beginning of this section (4-2 ~ ).  |      |            |   |                        |            |

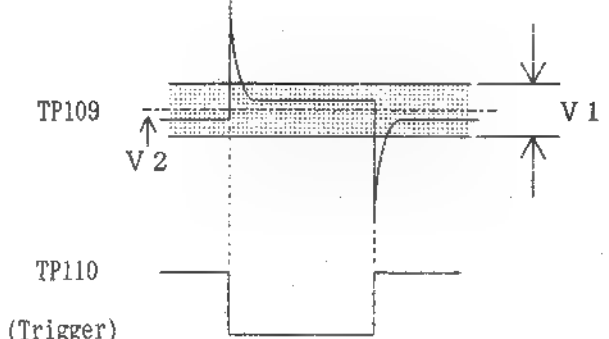
#### 4-28. DRUM PHASE FLUCTUATION CONFIRMATION (FOR AU-62/63 NTSC & PAL)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED   | M.EQ.   | INPUT SIGNAL | ADJUSTMENT |
|--|------|---|---|--------------|------------|
| TP3<br>TP7   | PLAY | PRE-RECORDED<br>TAPE<br>90 min.<br>MIDDLE PORTION | OSCILLOSCOPE  | -----        | -----      |
| Step 1.<br>MACHINE CONDITION   |      |   | Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).   |              |            |
| Step 2.<br><br>SCOPE CH1 : TP3 (Trigger)<br>SCOPE CH2 : TP7<br><br>1. Trigger the scope at rising edge of TP3.<br>2. Confirm that the T fluctuation is less than 6 $\mu$ sec as shown in figure. |      |   |  <p>T = less than 6 <math>\mu</math>sec.</p> |              |            |
| Step 3.<br><br>1. If it is not with in specification, readjust from beginning of this section (4-2 ~ ).  |      |   |   |              |            |

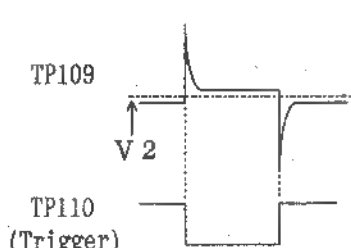
#### 4-29. CTL AMP CONFIRMATION (FOR AU-65 NTSC & PAL)

( W5 SERVO )

| TEST POINT  | MODE                             | TAPE USED  | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT |
|---|----------------------------------|------------|--|------------------------|------------|
| TP109<br>TP110  | Time Code<br>Insert<br>Recording | BLANK TAPE | OSCILLOSCOPE   | COMPONENT<br>COLOR BAR | -----      |
| Step 1.<br><br>SCOPE CH1 : TP109<br>SCOPE CH2 : TP110 (Trigger)<br><br>1. Confirm that the V1 (Noise level) is less than 400mVp-p.<br>2. Confirm the phase relationship as shown.<br>3. Confirm that the DC voltage of TP109 (V2) is less than 2.5V-(DC). |                                  |            |  |                        |            |

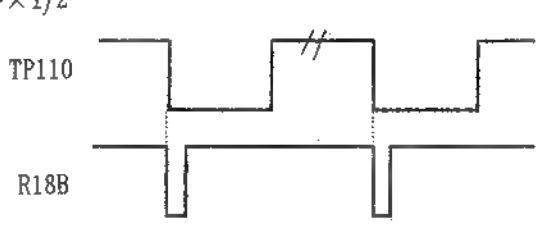
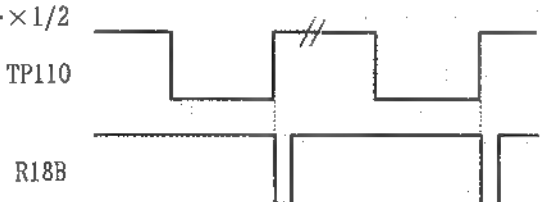
# 4-30. CTL AMP CONFIRMATION (FOR AU-62/63 NTSC & PAL)

( W5 SERVO )

| TEST POINT   | MODE | TAPE USED                        | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT |
|--|------|----------------------------------|--|------------------------|------------|
| TP109<br>TP110   | PLAY | ALIGNMENT<br>TAPE<br>(COLOR BAR) | OSCILLOSCOPE   | COMPONENT<br>COLOR BAR | -----      |
| Step 1.<br>MACHINE CONDITION   |      |                                  | Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).                  |                        |            |
| Step 2.<br><br>SCOPE CH1 : TP109<br>SCOPE CH2 : TP110 (Trigger)<br><br>1. Confirm the phase relationship as shown.<br><br>2. Confirm that the DC voltage of TP109 (V2) is less than 2.5V (DC). |      |                                  |  |                        |            |

# 4-31. CTL-RECOVER CIRCUIT OPERATING CONFIRMATION (FOR AU-65/63/62 NTSC & PAL)

( W5 SERVO )

| TEST POINT   | MODE                                  | TAPE USED         | M.EQ.   | INPUT SIGNAL | ADJUSTMENT |
|--|---------------------------------------|-------------------|---|--------------|------------|
| TP110<br>W5<br>Terminal<br>R18B  | SHTL<br>$\times 1/2$<br>$-\times 1/2$ | ALIGNMENT<br>TAPE | OSCILLOSCOPE  | -----        | -----      |
| Step 1.<br>MACHINE CONDITION   |                                       |                   | Refer to Set Up Conditions at 4-14 Machine Condition Setting (2).   |              |            |
| Step 2.<br><br>SCOPE CH1 : TP110<br>SCOPE CH2 : Terminal R18B<br>(on W5 Board)<br><br>1. MODE : SHTL $\times 1/2$<br>2. Confirm the phase relationship as shown. |                                       |                   | <p>SHTL <math>\times 1/2</math></p>   |              |            |
| Step 3.<br><br>1. MODE : SHTL $-\times 1/2$<br>2. Confirm the phase relationship as shown.   |                                       |                   | <p>SHTL <math>-\times 1/2</math></p>  |              |            |

4-32-N. 50 PIN PARALLEL REMOTE CAPSTAN OVERRIDE  
 SYNCHRONIZATION ADJUSTMENT (NTSC) ( W5 SERVO )

| TEST POINT | MODE | TAPE USED            | M.EQ.                | INPUT SIGNAL | ADJUSTMENT                |
|------------|------|----------------------|----------------------|--------------|---------------------------|
| TP115      | PLAY | PRE-RECORDED<br>TAPE | FREQUENCY<br>COUNTER | -----        | VR104 (CAP OVER)<br>VR105 |

Note:

This adjustment is needed when AU-MK25  
 is installed with AU-65/63/62 NTSC model.

Step 1.

1. Connect a DC voltage to pin 46 of 50 Pin Remote Connector.
2. Set the DC voltage to 5.2V (DC).
3. FREQUENCY COUNTER : TP115
4. Adjust VR104 so that the frequency becomes  $2158 \pm 50\text{Hz}$ .
5. Set the DC voltage to 8.2V (DC).
6. Frequency Counter : TP115
7. Adjust VR105 so that the frequency becomes  $2590 \pm 100\text{Hz}$ .
8. Set the DC voltage to 2.2V (DC).
9. Frequency Counter : TP115
10. Confirm that the frequency becomes  $1840 \pm 100\text{Hz}$ .
11. If it is not, repeat from item 2 to item 10.

| 46 Pin<br>(on 50 Pin) | TP115<br>(Frequency)    | VR No.       |
|-----------------------|-------------------------|--------------|
| 2.2V (DC)             | $1840 \pm 100\text{Hz}$ | CONFIRMATION |
| 5.2V (DC)             | $2158 \pm 50\text{Hz}$  | VR104        |
| 8.2V (DC)             | $2590 \pm 100\text{Hz}$ | VR105        |



4-32-P. 50 PIN PARALLEL REMOTE CAPSTAN OVERRIDE  
 SYNCHRONIZATION ADJUSTMENT (PAL) ( W5 SERVO )

| TEST POINT | MODE | TAPE USED            | M.EQ.                | INPUT SIGNAL | ADJUSTMENT                |
|------------|------|----------------------|----------------------|--------------|---------------------------|
| TP115      | PLAY | PRE-RECORDED<br>TAPE | FREQUENCY<br>COUNTER | -----        | VR104 (CAP OVER)<br>VR105 |

Note:

This adjustment is needed when AU-MK25  
 is installed with AU-65/63/62 PAL model.

Step 1.

1. Connect a DC voltage to pin 46 of 50  
Pin Remote Connector.
2. Set the DC voltage to 5.2V (DC).
3. FREQUENCY COUNTER : TP115
4. Adjust VR104 so that the frequency  
becomes  $1800 \pm 50\text{Hz}$ .
5. Set the DC voltage to 8.2V (DC).
6. Frequency Counter : TP115
7. Adjust VR105 so that the frequency  
becomes  $2160 \pm 100\text{Hz}$ .
8. Set the DC voltage to 2.2V (DC).
9. Frequency Counter : TP115
10. Confirm that the frequency becomes  
 $1535 \pm 100\text{Hz}$ .
11. If it is not, repeat from item 2 to  
item 10.

| 46 Pin<br>(on 50 Pin) | TP115<br>(Frequency)    | VR No.       |
|-----------------------|-------------------------|--------------|
| 2.2V (DC)             | $1535 \pm 100\text{Hz}$ | CONFIRMATION |
| 5.2V (DC)             | $1800 \pm 50\text{Hz}$  | VR104        |
| 8.2V (DC)             | $2160 \pm 100\text{Hz}$ | VR105        |

#### 4-33. SWITCHING POWER SOURCE ADJUSTMENT (FOR AU-63 NTSC & PAL)

( AT POWER )

| TEST POINT  | MODE | TAPE USED  | M.EQ.     | INPUT SIGNAL | ADJUSTMENT |
|---|------|------------|-----------|--------------|------------|
| TP 5<br>TP 6  | PLAY | BLANK TAPE | VOLTMETER | -----        | VR 1       |
| <p>Note: This adjustment is AU-63 only.</p> <p>SPEC :</p> <p>TP 5 = +400V <math>\pm</math> 10V <math>\oslash</math> VR1</p> <p>TP 6 = -400V <math>\pm</math> 10V (CONFIRMATION)</p> |      |            |           |              |            |

#### 4-34. OFFSET ADJUSTMENT (1) (FOR AU-63 NTSC & PAL)

( AT POWER )

| TEST POINT  | MODE | TAPE USED | M.EQ.   | INPUT SIGNAL | ADJUSTMENT |
|---|------|-----------|---|--------------|------------|
| TP 1  | PLAY | -----     | VOLTMETER   | -----        | VR 2       |
| <p>Note: This adjustment is AU-63 only.</p> <p>1. Connect a jumper wire between TPG1 and TP9.</p> <p>2. Adjust VR2 so that the voltage at TP1 is 0 <math>\pm</math> 0.3V.</p> <p>3. Disconnect the connected jumper wire.</p> |      |           | <p>TP1 = 0 <math>\pm</math> 0.3V<br/>(When TP9 and TPG1 are shorted.)</p> |              |            |

#### 4-35. OFFSET ADJUSTMENT (2) (FOR AU-63 NTSC & PAL)

( AT POWER )

| TEST POINT   | MODE | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|--|------|-----------|--|--------------|------------|
| TP 2   | PLAY | -----     | VOLTMETER  | -----        | VR 3       |
| <p>Note: This adjustment is AU-63 only.</p> <p>1. Connect a jumper wire between TPG1 and TP10.</p> <p>2. Adjust VR3 so that the voltage at TP2 is 0 <math>\pm</math> 0.3V.</p> <p>3. Disconnect the connected jumper wire.</p> |      |           | <p>TP2 = 0 <math>\pm</math> 0.3V<br/>(When TP10 and TPG1 are shorted.)</p> |              |            |

#### 4-36. MACHINE CONDITION SETTING (3) (FOR AU-63 AUTO TRACKING)

( W5 AT )

1. This adjustment procedure is required for machines equipped with Auto Tracking Function.
2. Confirm that the connector (P10) is connected to AT Power Board to supply the Auto Tracking voltage.
3. Before this AUTO TRACKING ADJ., the AT POWER BOARD should be adjusted (Refer to Section 4-33 ~ 4-35).
4. Before this AUTO TRACKING ADJ., the following adjustment should be completed.
  - (1) Y Playback FM Carrier Level Adjustment (7-1)
  - (2) Y Playback RF Level Adjustment (12-18)
  - (3) C Playback FM Carrier Level Adjustment (7-2)
  - (4) C Playback RF Level Adjustment (12-19)

#### 4-37. CAPSTAN FG ADJUSTMENT (FOR AU-63 NTSC & PAL)

( W5 AT )

| TEST POINT   | MODE | TAPE USED                        | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                       |
|--|------|----------------------------------|--|--------------|--|
| TP713<br>TP714   | PLAY | ALIGNMENT<br>TAPE<br>(COLOR BAR) | OSCILLOSCOPE   | -----        | VR708 (CAP FG1 OFFSET)<br>VR709 (CAP FG2 OFFSET) |
| <p>Note: This adjustment is AU-63 only.</p> <p>Step 1.</p> <p>SCOPE CH1 : TP713<br/>SCOPE CH2 : TP714</p> <ol style="list-style-type: none"> <li>1. Confirm that the "A" level is more than 0.8Vp-p.</li> <li>2. Adjust VR708 (for TP713) and VR709 (for TP714) so that the DC level "(B)" is <math>2.5 \pm 0.2V</math> (DC).</li> </ol> |      |                                  | <p>⊗ VR708<br/>⊗ VR709</p> <p>TP714</p> <p>TP713</p> <p>GND (0V DC)</p> <p>A = More than 0.8Vp-p<br/>B = <math>2.5V \pm 0.2V</math> (DC)</p> |              |  |

#### 4-38. CTL PHASE SHIFTER ADJUSTMENT (FOR AU-63 NTSC & PAL)

( W5 AT )

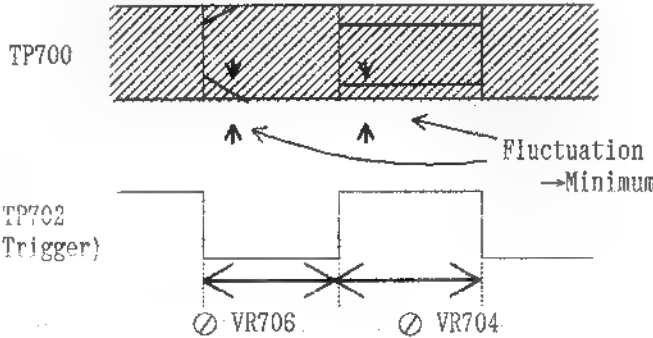
| TEST POINT   | MODE | TAPE USED                        | M.EQ.  | INPUT SIGNAL | ADJUSTMENT         |
|--|------|----------------------------------|--|--------------|--------------------|
| TP705<br>TP707   | PLAY | ALIGNMENT<br>TAPE<br>(COLOR BAR) | OSCILLOSCOPE   | -----        | VR701 (MR SHIFTER) |
| Note: This adjustment is AU-63 only.<br><br>Step 1.<br>MACHINE CONDITION   |      |                                  | Refer to Set Up Conditions at the beginning of this<br>SECTION (AT - W5)<br>SW700 (AT TRACKING SW) : PRESET Side   |              |                    |
| Step 2.<br><br>SCOPE CH1 : TP705<br>SCOPE CH2 : TP707<br>1. Adjust VR701 so that the both waveforms<br>are flat $0 \pm 0.2V$ (DC).<br>2. After that confirm that the FRM LED<br>(on W5 Board) is "OFF".<br>3. If it is not, readjust VR701 until the<br>each condition is reached. |      |                                  | ⊙ VR701<br><br><div style="display: flex; justify-content: space-between; align-items: center;"> <div>TP705</div> <div style="border: 1px solid black; width: 40px; height: 15px; margin: 0 auto;"></div> <div style="border: 1px solid black; width: 40px; height: 15px; margin: 0 auto;"></div> <div><math>0 \pm 0.2V</math> (DC)</div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div>TP707</div> <div style="border: 1px solid black; width: 40px; height: 15px; margin: 0 auto;"></div> <div style="border: 1px solid black; width: 40px; height: 15px; margin: 0 auto;"></div> <div><math>0 \pm 0.2V</math> (DC)</div> </div> |              |                    |

#### 4-39. X-VALUE ADJUSTMENT (FOR AU-63 NTSC & PAL) ( W5 AT )

| TEST POINT   | MODE | TAPE USED                        | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                   |
|--|------|----------------------------------|--|--------------|------------------------------|
| TP700<br>TP702   | PLAY | ALIGNMENT<br>TAPE<br>(COLOR BAR) | OSCILLOSCOPE   | -----        | VR702 ( AX )<br>VR703 ( BX ) |
| Note: This adjustment is AU-63 only.<br><br>Step 1.<br>MACHINE CONDITION   |      |                                  | Refer to Set Up Conditions at the beginning<br>of this SECTION (AT - W5).<br>SW700 (AT TRACKING SW) : PRESET Side  |              |                              |
| Step 2.<br><br>SCOPE CH1 : TP700<br>SCOPE CH2 : TP702 (Trigger)<br>1. Turn VR702 and VR703 fully<br>counterclockwise.<br>2. Adjust VR702 and then VR703 until<br>they reach the 1st maximum position.<br><br>*Note:<br>Adjust to max. point, even if both<br>channels are unequal. |      |                                  | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">TP700</div> <div style="border: 1px solid black; width: 150px; height: 40px; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);">MAX</div> </div> </div> <div style="display: flex; align-items: center; margin-top: 20px;"> <div style="margin-right: 20px;">TP702<br/>(Trigger)</div> <div style="border: 1px solid black; width: 150px; height: 40px; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; background: repeating-linear-gradient(-45deg, transparent, transparent 2px, black 2px, black 4px);"></div> </div> </div> <div style="display: flex; justify-content: center; margin-top: 10px;"> <span>⊙ VR702</span> <span style="margin-left: 20px;">⊙ VR703</span> </div> |              |                              |

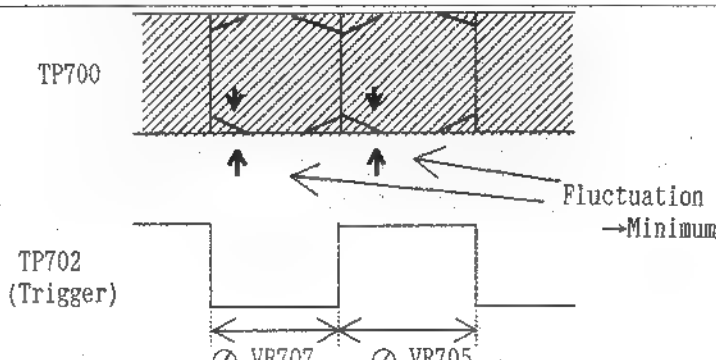
#### 4-40. AT GAIN ADJUSTMENT (1) (FOR AU-63 NTSC & PAL)

( W5 AT )

| TEST POINT   | MODE           | TAPE USED                        | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|--|----------------|----------------------------------|---|--------------|--|
| TP700<br>TP702   | VAR<br>× 30/32 | ALIGNMENT<br>TAPE<br>(COLOR BAR) | OSCILLOSCOPE  | -----        | VR705 (A COMP)<br>VR707 (B COMP)<br>VR704 (A GAIN)<br>VR706 (B GAIN) |
| <p>Note: This adjustment is AU-63 only.</p> <p>Step 1.</p> <p>MACHINE CONDITION</p>  |                |                                  | <p>Refer to Set Up Conditions at the beginning of this SECTION (AT - W5).</p> <p>VR705 : Fully Counterclockwise</p> <p>VR707 : Fully Counterclockwise</p> <p>SW700 (AT TRACKING SW) : PRESET Side</p> |              |  |
| <p>Step 2.</p> <p>SCOPE CH1 : TP700</p> <p>SCOPE CH2 : TP702 (Trigger)</p> <p>1. Adjust VR704 and VR706 so that the fluctuation of each channel is minimized as shown.</p> |                |                                  |    |              |  |

#### 4-41. AT GAIN ADJUSTMENT (2) (FOR AU-63 NTSC & PAL)

( W5 AT )

| TEST POINT   | MODE        | TAPE USED                        | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                       |
|--|-------------|----------------------------------|---|--------------|----------------------------------|
| TP700<br>TP702   | VAR<br>- ×1 | ALIGNMENT<br>TAPE<br>(COLOR BAR) | OSCILLOSCOPE  | -----        | VR705 (A COMP)<br>VR707 (B COMP) |
| <p>Note: This adjustment is AU-63 only.</p> <p>Step 1.</p> <p>MACHINE CONDITION</p>  |             |                                  | <p>Refer to Set Up Conditions at the beginning of this SECTION (AT - W5).</p> <p>SW700 (AT TRACKING SW) : PRESET Side</p> |              |                                  |
| <p>Step 2.</p> <p>SCOPE CH1 : TP700</p> <p>SCOPE CH2 : TP702 (Trigger)</p> <p>1. Adjust VR705 and VR707 so that the fluctuation of each channel is minimized as shown.</p> |             |                                  |                                       |              |                                  |

#### 4-42. ENVELOPE INPUT LEVEL ADJUSTMENT (FOR AU-63 NTSC & PAL)

( W5 AT )

| TEST POINT   | MODE | TAPE USED                        | M.EQ.   | INPUT SIGNAL | ADJUSTMENT       |
|--|------|----------------------------------|---|--------------|------------------|
| TP701  | PLAY | ALIGNMENT<br>TAPE<br>(COLOR BAR) | OSCILLOSCOPE  | -----        | VR700 (RF LEVEL) |
| Note: This adjustment is AU-63 only.<br>Step 1.<br>MACHINE CONDITION                                       |      |                                  | Refer to Set Up Conditions at the beginning<br>of this SECTION (AT - W5).<br>SW700 (AT TRACKING SW) : PRESET Side |              |                  |
| Step 2.<br>SCOPE CH1 : TP701.<br>1. Adjust VR700 so that the DC voltage is<br>3.4 + 0/-0.2V (DC) as shown. |      |                                  |   |              |                  |

#### 4-43. AUTO TRACKING CONFIRMATION (FOR AU-63 NTSC & PAL)

( W5 AT )

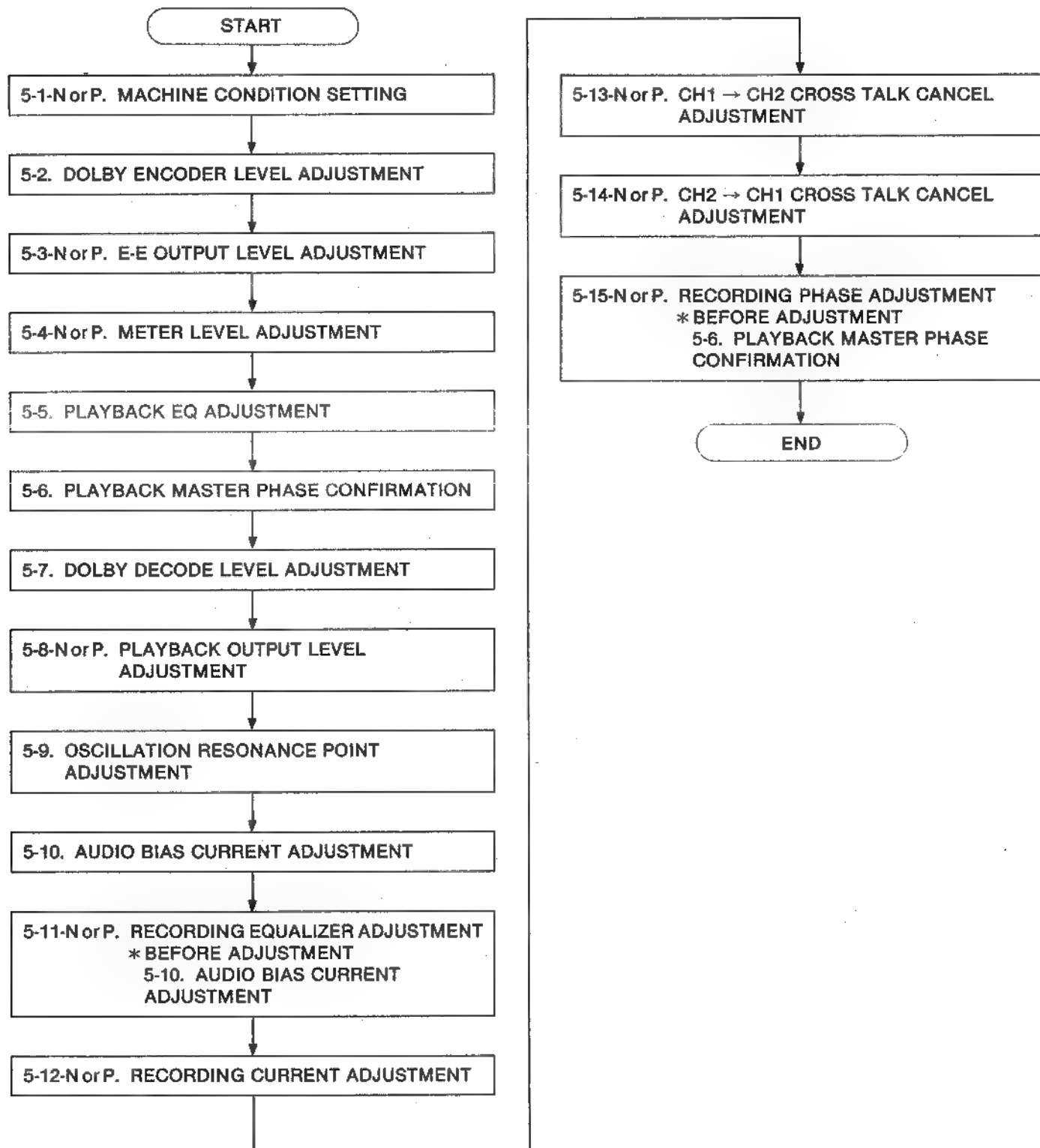
| TEST POINT  | MODE | TAPE USED         | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|---|------|-------------------|--|--------------|--------------|
| TP700   | PLAY | ALIGNMENT<br>TAPE | OSCILLOSCOPE   | -----        | VR702 ( AX ) |
| TP702   |      |                   |  |              | VR703 ( BX ) |
| <p>Note: This adjustment is AU-63 only.</p> <p>Step 1.</p> <p>MACHINE CONDITION</p>   |      |                   | <p>Refer to Set Up Conditions at the beginning of this SECTION (AT - W5).</p> <p>SW700 (AT TRACKING SW) : PRESET Side</p>  |              |              |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SCOPE CH1 : TP700<br/>SCOPE CH2 : TP702 (Trigger)</li> <li>Adjust VR702 and VR703 so that the RF Level becomes 50% at TP700.</li> <li>Set the SW700 (AT TRACKING SW) to "AUTO" side.</li> <li>Confirm that the RF Level becomes maximum automatically.</li> <li>Set the SW700 to "PRESET" side again.</li> <li>Readjust VR702 and VR703 so that the RF Level is maximized.</li> <li>Finally, set the SW700 to "AUTO" side.</li> </ol> |      |                   | <p>TP700</p> <pre>       "PRESET"               ↓       "AUTO"       ↓       "PRESET"       ↓       "AUTO"           </pre> <p>VR702<br/>VR703</p> <p>RF LEVEL 100% Automatically</p> <p>Readjust VR702 and VR703 so that the RF level is maximized.</p> |              |              |

## 5. AUDIO (W6) BOARD (1/2) — LINEAR AUDIO SECTION —

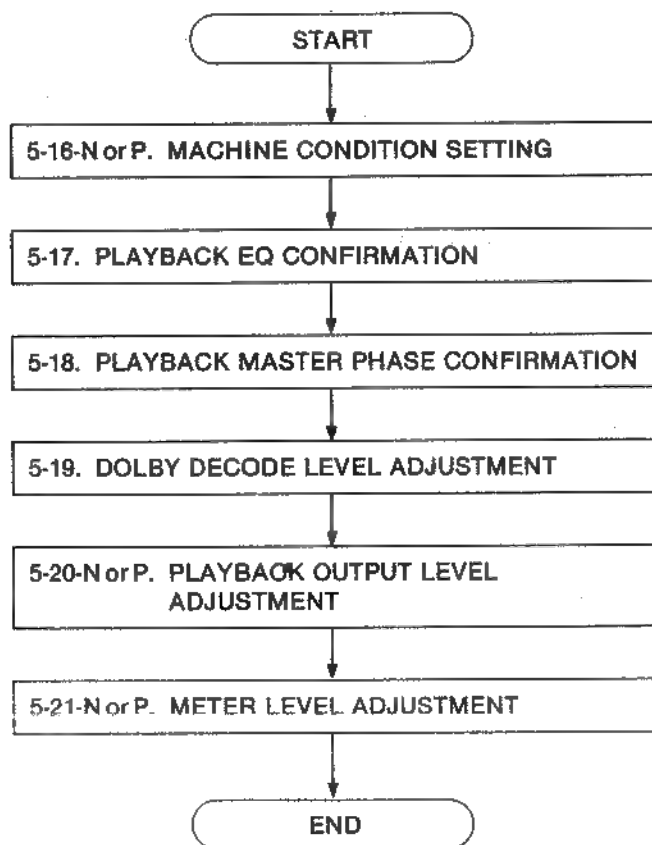
### LINEAR AUDIO SECTION (W6) FLOWCHART FOR AU-65

#### \* BEFORE ADJUSTMENT

The adjustment with this comment is necessary to adjust after the following adjustments are completed.



## LINEAR AUDIO SECTION (W6) FLOWCHART FOR AU-63 AND AU-62





## 5. AUDIO (W6) BOARD (1/2) — LINEAR AUDIO SECTION —

### 5-1-N. MACHINE CONDITION SETTING (FOR AU-65 NTSC LINEAR AUDIO)

Set the switches on the Front Panel as follows except special condition for NTSC VTR.

|  |       |               |
|--|-------|---------------|
| REC & PB VR                                    | ----- | PRESET (PUSH) |
| METER SELECT                                   | ----- | LINEAR        |
| MODE   | ----- | EE            |
| HEAD SELECT                                    | ----- | R/P           |
| DOLBY  | ----- | OFF           |
| LIMITER  | ----- | OFF           |
| INPUT LEVEL SELECT ( on the Audio I/O Board )  | ----- | +4dBm         |
| OUTPUT LEVEL SELECT ( on the Audio I/O Board ) | ----- | +4dBm         |

### 5-1-P. MACHINE CONDITION SETTING (FOR AU-65 PAL LINEAR AUDIO)

Set the switches on the Front Panel as follows except special condition for PAL VTR.

|  |       |               |
|--|-------|---------------|
| REC & PB VR                                    | ----- | PRESET (PUSH) |
| METER SELECT                                   | ----- | LINEAR        |
| MODE   | ----- | EE            |
| HEAD SELECT                                    | ----- | R/P           |
| DOLBY  | ----- | OFF           |
| LIMITER  | ----- | OFF           |
| INPUT LEVEL SELECT ( on the Audio I/O Board )  | ----- | +0dBu         |
| OUTPUT LEVEL SELECT ( on the Audio I/O Board ) | ----- | +0dBu         |

### 5-2. DOLBY ENCODER LEVEL ADJUSTMENT (FOR AU-65 NTSC & PAL)

( AUDIO VR BOARD )

| TEST POINT                                   | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL   | ADJUSTMENT   |
|--|-------|-----------|--|--|--|
| TP101 (CH1)<br>on W6<br>TP301 (CH2)<br>on W6 | EJECT | -----     | VTVM   | 1KHz Sinewave<br>Signal<br>NTSC : +4dBm<br>PAL : +0dBu | VR1 (CH1 DOLBY ENC)<br>on AUDIO VR<br>VR5 (CH2 DOLBY ENC)<br>on AUDIO VR |
| Step 1.<br>MACHINE CONDITION                 |       |           | Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1-N or 5-1-P). |  |  |
| Step 2.<br>VTVM : TP101 (CH1)<br>TP301 (CH2) |       |           | ⊙ VR1, 5 (on AUDIO VR P.C.Board)<br>SPECIFICATION : -6dBm ± 0.2dB<br>( 387.5mVrms )                        |  |  |

**5-3-N. E-E OUTPUT LEVEL ADJUSTMENT (FOR AU-65 NTSC)**  
( W6 AUDIO )

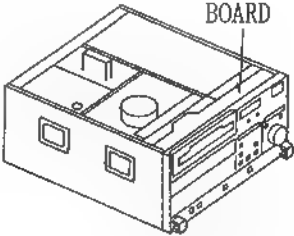
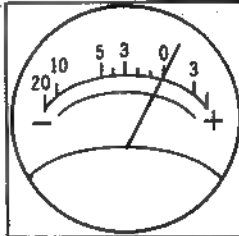
| TEST POINT                                     | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                      | ADJUSTMENT                                     |
|--|-------|-----------|--|-----------------------------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT         | EJECT | -----     | VTVM   | 1KHz Sinewave<br>Signal<br>+4dBm. | VR101 (CH1 E-E OUT)<br><br>VR301 (CH2 E-E OUT) |
| Step 1.<br>MACHINE CONDITION                   |       |           | Refer to Set Up Conditions at the beginning of<br>this SECTION (AUDIO - W6 Machine Condition 5-1-N). |                                   |  |
| Step 2.<br>VTVM : CH1 LINE OUT<br>CH2 LINE OUT |       |           | ⊙ VR101, 301<br>SPECIFICATION : +4dBm $\pm$ 0.2dB  |                                   |  |

**5-3-P. E-E OUTPUT LEVEL ADJUSTMENT (FOR AU-65 PAL)**  
( W6 AUDIO )

| TEST POINT                                     | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                     | ADJUSTMENT                                     |
|--|-------|-----------|--|----------------------------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT         | EJECT | -----     | VTVM   | 1KHz Sinewave<br>Signal<br>0dBu. | VR101 (CH1 E-E OUT)<br><br>VR301 (CH2 E-E OUT) |
| Step 1.<br>MACHINE CONDITION                   |       |           | Refer to Set Up Conditions at the beginning of<br>this SECTION (AUDIO - W6 Machine Condition 5-1-P). |                                  |  |
| Step 2.<br>VTVM : CH1 LINE OUT<br>CH2 LINE OUT |       |           | ⊙ VR101, 301<br>SPECIFICATION : 0dBu $\pm$ 0.2dB   |                                  |  |

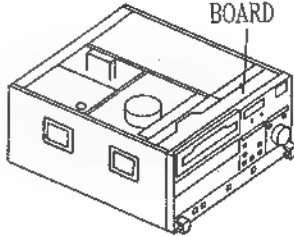
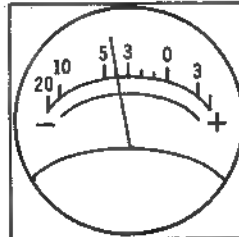
#### 5-4-N. METER LEVEL ADJUSTMENT (FOR AU-65 NTSC)

( FRONT I/F BOARD )

| TEST POINT  | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL                      | ADJUSTMENT   |
|---|-------|-----------|---|-----------------------------------|--|
| CH1<br>METER<br><br>CH2<br>METER  | EJECT | -----     | -----   | 1KHz Sinewave<br>Signal<br>+4dBm. | VR101 (CH1 METER)<br>on Front Interface<br>VR102 (CH2 METER)<br>on Front Interface |
| Step 1.<br>MACHINE CONDITION  |       |           | Refer to Set Up Conditions at the beginning of<br>this SECTION (AUDIO - W6 Machine Condition 5-1-N).  |                                   |  |
| Step 2.<br>1.. Adjust VR101 (CH1) and VR102 (CH2)<br>on the Front Interface Board so that<br>the meter indicates "0" VU as shown. |       |           |  <p>FRONT INTERFACE<br/>BOARD</p> <p>⊗ VR101<br/>⊗ VR102</p>  |                                   |  |

#### 5-4-P. METER LEVEL ADJUSTMENT (FOR AU-65 PAL)

( FRONT I/F BOARD )

| TEST POINT  | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL                     | ADJUSTMENT   |
|---|-------|-----------|---|----------------------------------|--|
| CH1<br>METER<br><br>CH2<br>METER  | EJECT | -----     | -----   | 1KHz Sinewave<br>Signal<br>0dBu. | VR101 (CH1 METER)<br>on Front Interface<br>VR102 (CH2 METER)<br>on Front Interface |
| Step 1.<br>MACHINE CONDITION  |       |           | Refer to Set Up Conditions at the beginning of<br>this SECTION (AUDIO - W6 Machine Condition 5-1-P).  |                                  |  |
| Step 2.<br>1. Adjust VR101 (CH1) and VR102 (CH2)<br>on the Front Interface Board so that<br>the meter indicates "-4" VU as shown. |       |           |  <p>FRONT INTERFACE<br/>BOARD</p> <p>⊗ VR101<br/>⊗ VR102</p>  |                                  |  |

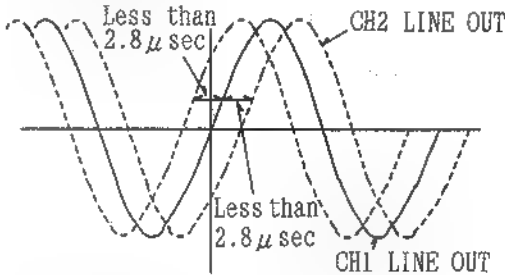

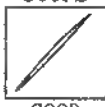
## 5-5. PLAYBACK EQ ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W6 AUDIO )

| TEST POINT  | MODE | TAPE USED  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                 |
|---|------|--|--|--------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE<br>F. RESPONSE<br>ADJ. PORTION | VTVM   | -----        | SW101 (CH1 PB EQ)<br><br>SW301 (CH2 PB EQ) |
| Step 1.<br>MACHINE CONDITION  |      |  | Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1-N or 5-1-P).   |              |  |
| Step 2.<br>1. Play back the Frequency Response portion of the Alignment Tape.<br><br>2. Confirm that the specification as shown.<br><br>3. If it is not within specification, adjust SW101 (CH1) and SW301 (CH2).<br><br>4. Repeat Item 1, 2, 3 until the specification is met. |      |  | <p>⊙ SW101, 301</p> <p>SPECIFICATION : 1KHz ~ 7.5KHz = <math>\pm 1\text{dB}</math><br/> 7.5KHz ~ 15KHz = <math>+1.5\text{dB}</math><br/> ( 1KHz Reference ) <math>-2.5\text{dB}</math></p> |              |  |

## 5-6. PLAYBACK MASTER PHASE CONFIRMATION (FOR AU-65 NTSC & PAL)

( W6 AUDIO )

| TEST POINT  | MODE | TAPE USED                          | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                       |
|---|------|------------------------------------|--|--------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE<br>15KHz PORTION | OSCILLOSCOPE   | -----        | A/C HEAD AZIMUTH<br>ADJUSTMENT<br>( MECHANICAL ) |
| Step 1.<br>MACHINE CONDITION  |      |                                    | 1. Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1-N or 5-4-P).<br>2. The PLAYBACK EQ ADJ. (5-5) should be completed.  |              |  |
| Step 2.<br>SCOPE CH1 : CH1 LINE OUT<br>SCOPE CH2 : CH2 LINE OUT<br><br>1. Play back the 15KHz portion of the Alignment Tape.<br><br>2. Confirm that the phase difference is $0 \pm 2.8\mu\text{sec}$ ( $\pm 15^\circ$ ).<br><br>3. If it is not, readjust the A/C Head Azimuth Mechanically (See Mech. Adj. Section).<br><br>4. After this adjustment is finished, readjust the PB EQ ADJ. (5-5). |      |                                    |  <p>or Place scope in X-Y mode and observe the pattern. Confirm both circles are in phase.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>SCOPE</p>  <p>NO GOOD</p> </div> <div style="text-align: center;"> <p>SCOPE</p>  <p>GOOD</p> </div> </div> |              |  |

**5-7. DOLBY DECODE LEVEL ADJUSTMENT**  
(FOR AU-65 NTSC & PAL)

( W6 AUDIO )

| TEST POINT                                   | MODE | TAPE USED                                | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                 |
|--|------|--|--|--------------|--|
| TP101 (CH1)<br>TP301 (CH2)                   | PLAY | ALIGNMENT<br>TAPE<br>1KHz 0VU<br>PORTION | VTVM   | -----        | VR103 (CH1 PB GAIN)<br>VR303 (CH2 PB GAIN) |
| Step 1.<br>MACHINE CONDITION                 |      |  | Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1-N or 5-1-P). |              |  |
| Step 2.<br>VTVM : TP101 (CH1)<br>TP301 (CH2) |      |  | ⊙ VR103, VR303<br>SPECIFICATION : -6dBm $\pm$ 0.2dB<br>( 387.5mVrms )                                      |              |  |

**5-8-N. PLAYBACK OUTPUT LEVEL ADJUSTMENT**  
(FOR AU-65 NTSC)

( AUDIO VR BOARD )

| TEST POINT   | MODE | TAPE USED                                | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|--|------|--|---|--------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT   | PLAY | ALIGNMENT<br>TAPE<br>1KHz 0VU<br>PORTION | VTVM  | -----        | VR3 (CH1 PB OUT)<br>on Audio VR<br>VR7 (CH2 PB OUT)<br>on Audio VR |
| Step 1.<br>MACHINE CONDITION   |      |  | Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1-N). |              |  |
| Step 2.<br>VTVM : CH1 LINE OUT<br>CH2 LINE OUT<br><br>1. Adjust VR3 and VR7 on the Audio VR Board so that the output level is +4dBm $\pm$ 0.2dB. |      |  | ⊙ VR3, 7<br><br>SPECIFICATION : +4dBm $\pm$ 0.2dB.  |              |  |

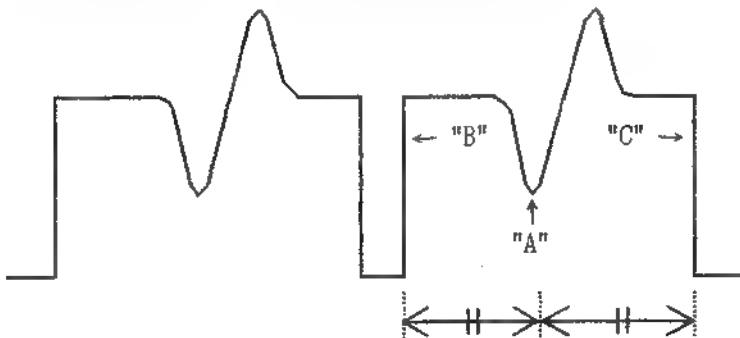
# 5-8-P. PLAYBACK OUTPUT LEVEL ADJUSTMENT (FOR AU-65 PAL)

( AUDIO VR BOARD )

| TEST POINT  | MODE | TAPE USED                                | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|---|------|--|--|--------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE<br>1KHz OVU<br>PORTION | VTVM   | -----        | VR3 (CH1 PB OUT)<br>on Audio VR<br>VR7 (CH2 PB OUT)<br>on Audio VR |
| Step 1.<br>MACHINE CONDITION  |      |  | Refer to Set Up Conditions at the beginning of<br>this SECTION (AUDIO - W6 Machine Condition 5-1-P). |              |  |
| Step 2.<br>VTVM : CH1 LINE OUT<br>CH2 LINE OUT<br><br>1. Adjust VR3 and VR7 on the Audio VR<br>Board so that the output level is<br>+0dBu $\pm$ 0.2dBu. |      |  | $\odot$ VR3, 7<br><br>SPECIFICATION : +0dBu $\pm$ 0.2dB.   |              |  |

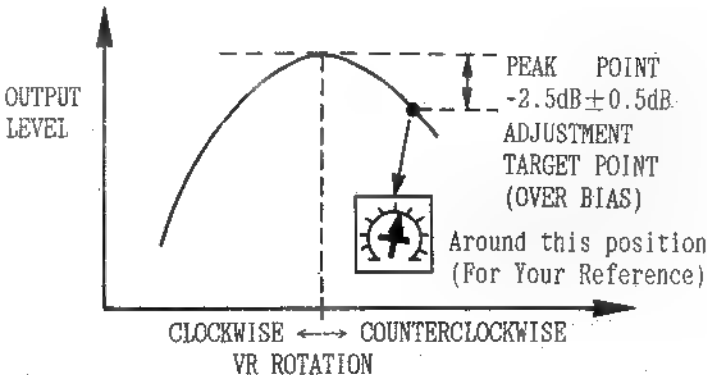
# 5-9. OSCILLATION RESONANCE POINT ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W6 AUDIO )

| TEST POINT  | MODE | TAPE USED  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|---|------|------------|---|--------------|--|
| HOT : TP551<br>TP552<br>TP553<br>TP554<br>TP555<br>TP556<br>TP557<br>TP558<br>GND : TPG551  | REC  | BLANK TAPE | OSCILLOSCOPE  | -----        | T551 (CH1 BIAS )<br>T552 (CH2 BIAS )<br>T553 (CH1 ERASE )<br>T554 (CH2 ERASE )<br>T555 (TC BIAS )<br>T556 (TC ERASE )<br>T557 (CTL ERASE )<br>T558 (FULL ERASE ) |
| Step 1.<br>MACHINE CONDITION  |      |            | Refer to Set Up Conditions at the beginning of this<br>SECTION (AUDIO - W6 Machine Condition 5-1-N or 5-1-P). |              |  |
| Step 2.<br>SCOPE : The Connect & adjust for each<br>Test Point.<br><br>1. Adjust the each coils so that the "A"<br>point of the waveform is in the center<br>between "B" and "C". |      |            |                           |              |  |

# 5-10. AUDIO BIAS CURRENT ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W6 AUDIO )

| TEST POINT  | MODE           | TAPE USED  | M.EQ.  | INPUT SIGNAL  | ADJUSTMENT   |
|---|----------------|------------|--|---|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | SELF<br>REC/PB | BLANK TAPE | VTVM   | 10KHz Sinewave<br>Signal<br>NTSC : +4dBm<br>PAL : +0dBu | VR551 (CH1 BIAS CURR.)<br><br>VR552 (CH2 BIAS CURR.) |
| Step 1.<br>MACHINE CONDITION  |                |            | Refer to Set Up Conditions at the beginning of this<br>SECTION (AUDIO - W6 Machine Condition 5-1-N or 5-1-P).  |   |  |
| Step 2.<br><br>1. Place the unit in the recording mode.<br><br>2. Turn VR551 (CH1) from fully clockwise<br>position to fully counterclockwise<br>position slowly while in the recording.<br><br>3. VTVM : CH1 LINE OUT<br><br>4. Play back the just recorded portion.<br><br>5. Find the audio peak level and notate<br>it.<br><br>6. Set VR551 around its center position.<br><br>7. Make a recording then, Playback that<br>portion.<br><br>8. Confirm that the audio output level is<br>-2.5dB $\pm$ 0.5dB (Bias Saturation point)<br>from the Audio Peak Level.<br><br>9. If it is not, repeat from Item 6 to 8<br>until the Audio Bias is -2.5dB $\pm$ 0.5dB<br>from the Audio Peak Level.<br><br>Note :<br>CH2 AUDIO BIAS CURR. ADJ. procedure is<br>same as CH1. |                |            | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>⊗ VR551</p> <p>⊗ VR552</p> </div> <div>  </div> </div> |   |  |

# 5-11-N. RECORDING EQUALIZER ADJUSTMENT (FOR AU-65 NTSC)

( W6 AUDIO )

| TEST POINT   | MODE           | TAPE USED  | M.EQ.   | INPUT SIGNAL                             | ADJUSTMENT   |
|--|----------------|------------|---|--|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT   | SELF<br>REC/PB | BLANK TAPE | VTVM  | 1KHz ~ 15KHz<br>Sinewave Signal<br>-6dBm | VR203 (CH1 REC EQ1)<br>SW201<br>VR403 (CH2 REC EQ1)<br>SW401 |
| Step 1.<br><br>MACHINE CONDITION   |                |            | 1. Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1-N).<br>2. The Audio Bias Current Adjustment (Section 5-10) should be completed.  |  |  |
| Step 2.<br><br>1. Supply a 1KHz sinewave signal at -6dBm (387.5 mVrms) to CH1 and CH2 inputs.<br><br>2. Insert a work cassette and place the unit in the recording mode.<br><br>3. During recording mode, change the Audio Frequency from 1KHz to 7.5KHz, 12.5KHz and 15KHz.<br><br>4. Play back the just recorded portion and confirm that the output level is within the specification as shown.<br><br>5. If it is not, adjust VR203 and SW201.<br><br>6. Repeat from Item 3 to 4 until the output level is in specification.<br><br>Note :<br>VR203 (VR403) : CH1 REC EQ (CH2 REC EQ)<br>SW201 (SW401) : CH1 REC EQ (CH2 REC EQ)<br><br>1. CH2 REC EQ ADJ. procedure is same as CH1. |                |            | <div> <div> <div>⊗ VR203</div> <div>⊗ VR403</div> <div>SW201</div> <div>SW401</div> </div> <div> SPECIFICATION :<br/> 1KHz ~ 7.5KHz = <math>\pm 1\text{dB}</math><br/> 7.5KHz ~ 15KHz = <math>+1.5/-2.5\text{dB}</math><br/> (1KHz Reference) </div> </div> |  |  |



# 5-11-P. RECORDING EQUALIZER ADJUSTMENT (FOR AU-65 PAL)

( W6 AUDIO )

| TEST POINT  | MODE           | TAPE USED  | M.EQ.  | INPUT SIGNAL                              | ADJUSTMENT   |
|---|----------------|------------|--|---|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | SELF<br>REC/PB | BLANK TAPE | VTVM   | 1KHz ~ 15KHz<br>Sinewave Signal<br>-10dBu | VR203 (CH1 REC EQ1)<br>SW201<br>VR403 (CH2 REC EQ1)<br>SW401 |
| Step 1.<br><br>MACHINE CONDITION  |                |            | 1. Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1-P).<br>2. The Audio Bias Current Adjustment (Section 5-10) should be completed. |   |  |
| Step 2.<br><br>1. Supply a 1KHz sinewave signal at -10dBu to CH1 and CH2 inputs.<br><br>2. Insert a work cassette and place the unit in the recording mode.<br><br>3. During recording mode, change the Audio Frequency from 1KHz to 7.5KHz, 12.5KHz and 15KHz.<br><br>4. Play back the just recorded portion and confirm that the output level is within the specification as shown.<br><br>5. If it is not, adjust VR203 and SW201.<br><br>6. Repeat from Item 3 to 4 until the output level is in specification.<br><br>Note :<br>VR203 (VR403) : CH1 REC EQ (CH2 REC EQ)<br>SW201 (SW401) : CH1 REC EQ (CH2 REC EQ)<br><br>1. CH2 REC EQ ADJ. procedure is same as CH1. |                |            | <div> ⊗ VR203    ⊗ VR403<br/> SW201      SW401 </div><br>SPECIFICATION :<br>1KHz ~ 7.5KHz = $\pm 1\text{dB}$<br>7.5KHz ~ 15KHz = $+1.5/-2.5\text{dB}$<br>(1KHz Reference)        |   |  |

5-12-N. RECORDING CURRENT ADJUSTMENT  
(FOR AU-65 NTSC)

( W6 AUDIO )

| TEST POINT   | MODE           | TAPE USED  | M.EQ.  | INPUT SIGNAL                     | ADJUSTMENT   |
|--|----------------|------------|--|----------------------------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT   | SELF<br>REC/PB | BLANK TAPE | VTVM   | 1KHz Sinewave<br>Signal<br>+4dBm | VR202 (CH1 REC CURR.)<br><br>VR402 (CH2 REC CURR.) |
| Step 1.<br>MACHINE CONDITION   |                |            | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 5-1-N).                     |                                  |  |
| Step 2.<br><br>1. VTVM : CH1 LINE OUT<br>CH2 LINE OUT<br><br>2. Make a recording.<br><br>3. Play back the just recorded portion,<br>and confirm that the output level is<br>+4dBm $\pm$ 0.2dBm at CH1 and CH2 outputs. |                |            | 4. If it is not, adjust VR202 (VR402).<br><br>5. Repeat the Item 2 and 3 until the output level is<br>+4dBm $\pm$ 0.2dB. |                                  |  |

5-12-P. RECORDING CURRENT ADJUSTMENT  
(FOR AU-65 PAL)

( W6 AUDIO )

| TEST POINT   | MODE           | TAPE USED  | M.EQ.  | INPUT SIGNAL                     | ADJUSTMENT   |
|--|----------------|------------|--|----------------------------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT   | SELF<br>REC/PB | BLANK TAPE | VTVM   | 1KHz Sinewave<br>Signal<br>+0dBu | VR202 (CH1 REC CURR.)<br><br>VR402 (CH2 REC CURR.) |
| Step 1.<br>MACHINE CONDITION   |                |            | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 5-1-P).                     |                                  |  |
| Step 2.<br><br>1. VTVM : CH1 LINE OUT<br>CH2 LINE OUT<br><br>2. Make a recording.<br><br>3. Play back the just recorded portion,<br>and confirm that the output level is<br>+0dBu $\pm$ 0.2dBu at CH1 and CH2 outputs. |                |            | 4. If it is not, adjust VR202 (VR402).<br><br>5. Repeat the Item 2 and 3 until the output level is<br>+0dBu $\pm$ 0.2dB. |                                  |  |

5-13-N. CH1 → CH2 CROSS TALK CANCEL ADJUSTMENT  
(FOR AU-65 NTSC)

( W6 AUDIO )

| TEST POINT  | MODE          | TAPE USED                        | M.EQ.  | INPUT SIGNAL                            | ADJUSTMENT                                    |
|---|---------------|----------------------------------|--|---|---|
| CH2<br>LINE OUT   | CH1<br>INSERT | Cassette Shell<br>(Without Tape) | VTVM   | 1KHz & 9KHz<br>Sinewave Signal<br>+4dBm | VR205 (CH1 HIGH CTC)<br>VR206 (CH1 CTC LEVEL) |
| Step 1.<br>MACHINE CONDITION  |               |                                  | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 5-1-N).<br>*Tape sides of Cassette Shell where end of tape<br>detection occurs.   |   |   |
| Step 2.<br><br>1. VTVM : CH2 LINE OUT<br><br>2. Supply a 1KHz sinewave signal at +4dBm<br>to CH1 and CH2 Input.<br><br>3. Place the unit in the CH1 INSERT mode.<br><br>4. Confirm that the CH2 Audio Output Level<br>is Less than -21dBm.<br><br>5. If it is not, adjust VR205 so that the<br>CH2 Audio Output Level is less than<br>-21dBm at CH2 LINE OUT. |               |                                  | Step 3.<br><br>1. VTVM : CH2 LINE OUT<br><br>2. Supply a 9KHz sinewave signal at +4dBm to CH1 and<br>CH2 Input.<br><br>3. Place the unit in the CH1 INSERT mode.<br><br>4. Confirm that the CH2 Audio Output Level is<br>Less than -21dBm.<br><br>5. If it is not, adjust VR206 so that the CH2 Audio Output<br>Level is less than -21dBm at CH2 LINE OUT. |   |   |

5-13-P. CH1 → CH2 CROSS TALK CANCEL ADJUSTMENT  
(FOR AU-65 PAL)

( W6 AUDIO )

| TEST POINT  | MODE          | TAPE USED                        | M.EQ.  | INPUT SIGNAL                            | ADJUSTMENT                                    |
|---|---------------|----------------------------------|--|---|---|
| CH2<br>LINE OUT   | CH1<br>INSERT | Cassette Shell<br>(Without Tape) | VTVM   | 1KHz & 9KHz<br>Sinewave Signal<br>+0dBu | VR205 (CH1 HIGH CTC)<br>VR206 (CH1 CTC LEVEL) |
| Step 1.<br>MACHINE CONDITION  |               |                                  | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 5-1-P).<br>*Tape sides of Cassette Shell where end of tape<br>detection occurs.   |   |   |
| Step 2.<br><br>1. VTVM : CH2 LINE OUT<br><br>2. Supply a 1KHz sinewave signal at +0dBu<br>to CH1 and CH2 Input.<br><br>3. Place the unit in the CH1 INSERT mode.<br><br>4. Confirm that the CH2 Audio Output Level<br>is Less than -25dBu.<br><br>5. If it is not, adjust VR205 so that the<br>CH2 Audio Output Level is less than<br>-25dBu at CH2 LINE OUT. |               |                                  | Step 3.<br><br>1. VTVM : CH2 LINE OUT<br><br>2. Supply a 9KHz sinewave signal at +0dBu to CH1 and<br>CH2 Input.<br><br>3. Place the unit in the CH1 INSERT mode.<br><br>4. Confirm that the CH2 Audio Output Level is<br>Less than -25dBu.<br><br>5. If it is not, adjust VR206 so that the CH2 Audio Output<br>Level is less than -25dBu at CH2 LINE OUT. |   |   |

5-14-N. CH2 → CH1 CROSS TALK CANCEL ADJUSTMENT  
(FOR AU-65 NTSC) ( W6 AUDIO )

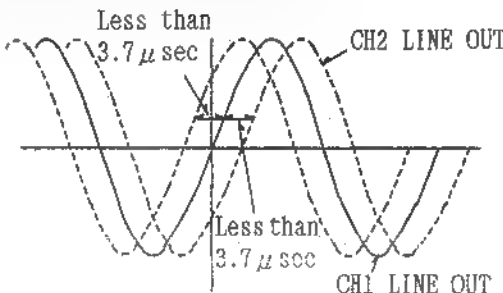


| TEST POINT  | MODE          | TAPE USED                    | M.EQ.  | INPUT SIGNAL                            | ADJUSTMENT                                    |
|---|---------------|------------------------------|--|---|---|
| CH1<br>LINE OUT   | CH2<br>INSERT | BLANK TAPE<br>(Without Tape) | VTVM   | 1KHz ■ 9KHz<br>Sinewave Signal<br>+4dBm | VR405 (CH2 HIGH CTC)<br>VR406 (CH2 CTC LEVEL) |
| Step 1.<br>MACHINE CONDITION  |               |                              | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 5-1-N).<br>*Tape sides of Cassette Shell where end of tape<br>detection occurs.   |   |   |
| Step 2.<br><br>1. VTVM : CH1 LINE OUT<br><br>2. Supply a 1KHz sinewave signal at +4dBm<br>to CH1 and CH2 Input.<br><br>3. Place the unit in the CH2 INSERT mode.<br><br>4. Confirm that the CH1 Audio Output Level<br>is Less than -21dBm.<br><br>5. If it is not, adjust VR405 so that the<br>CH1 Audio Output Level is less than<br>-21dBm at CH1 LINE OUT. |               |                              | Step 3.<br><br>1. VTVM : CH1 LINE OUT<br><br>2. Supply a 9KHz sinewave signal at +4dBm to CH1 and<br>CH2 Input.<br><br>3. Place the unit in the CH2 INSERT mode.<br><br>4. Confirm that the CH1 Audio Output Level is<br>Less than -21dBm.<br><br>5. If it is not, adjust VR406 so that the CH1 Audio Output<br>Level is less than -21dBm at CH1 LINE OUT. |   |   |

5-14-P. CH2 → CH1 CROSS TALK CANCEL ADJUSTMENT  
(FOR AU-65 PAL)

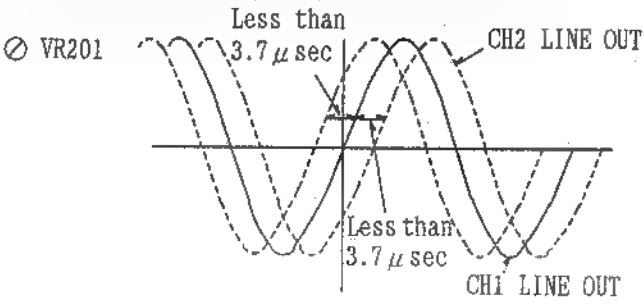

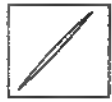
( W6 AUDIO )

| TEST POINT  | MODE          | TAPE USED                    | M.EQ.  | INPUT SIGNAL                            | ADJUSTMENT                                    |
|---|---------------|------------------------------|--|---|---|
| CH1<br>LINE OUT   | CH2<br>INSERT | BLANK TAPE<br>(Without Tape) | VTVM   | 1KHz & 9KHz<br>Sinewave Signal<br>+0dBu | VR405 (CH2 HIGH CTC)<br>VR406 (CH2 CTC LEVEL) |
| Step 1.<br>MACHINE CONDITION  |               |                              | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 5-1-P).<br>*Tape sides of Cassette Shell where end of tape<br>detection occurs.   |   |   |
| Step 2.<br><br>1. VTVM : CH1 LINE OUT<br><br>2. Supply a 1KHz sinewave signal at +0dBu<br>to CH1 and CH2 Input.<br><br>3. Place the unit in the CH2 INSERT mode.<br><br>4. Confirm that the CH1 Audio Output Level<br>is Less than -25dBu.<br><br>5. If it is not, adjust VR405 so that the<br>CH1 Audio Output Level is less than<br>-25dBu at CH1 LINE OUT. |               |                              | Step 3.<br><br>1. VTVM : CH1 LINE OUT<br><br>2. Supply a 9KHz sinewave signal at +0dBu to CH1 and<br>CH2 Input.<br><br>3. Place the unit in the CH2 INSERT mode.<br><br>4. Confirm that the CH1 Audio Output Level is<br>Less than -25dBu.<br><br>5. If it is not, adjust VR406 so that the CH1 Audio Output<br>Level is less than -25dBu at CH1 LINE OUT. |   |   |

5-15-N. RECORDING PHASE ADJUSTMENT (FOR AU-65 NTSC)  
( W6 AUDIO )

| TEST POINT  | MODE           | TAPE USED  | M.EQ.   | INPUT SIGNAL                      | ADJUSTMENT        |
|---|----------------|------------|---|-----------------------------------|-------------------|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | SELF<br>REC/PB | BLANK TAPE | OSCILLOSCOPE  | 15KHz<br>Sinewave Signal<br>+4dBm | VR201 (REC P. S.) |
| Step 1.<br>MACHINE CONDITION  |                |            | 1. Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1-N).<br>2. The PLAYBACK MASTER PHASE ADJ. (5-6) should be completed before this adjustment is done.   |                                   |                   |
| Step 2.<br><br>1. SCOPE CH1 : CH1 LINE OUT<br>SCOPE CH2 : CH2 LINE OUT<br><br>2. Make a recording.<br><br>3. Play back the just recorded portion.<br><br>4. Confirm that the phase difference is $0 \pm 3.7 \mu\text{sec}$ ( $\pm 20^\circ$ ).<br><br>5. If it is not, adjust VR201 and repeat from Item 2 to Item 4 until the phase difference becomes $0 \pm 3.7 \mu\text{sec}$ ( $\pm 20^\circ$ ). |                |            | <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">⊗ VR201</div>  </div> <p>or Place scope in X-Y mode and observe the pattern.<br/>Confirm both circles are in phase.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>SCOPE</p>  <p>NO GOOD</p> </div> <div style="text-align: center;"> <p>SCOPE</p>  <p>GOOD</p> </div> </div> |                                   |                   |

5-15-P. RECORDING PHASE ADJUSTMENT (FOR AU-65 PAL)  
( W6 AUDIO )

| TEST POINT  | MODE           | TAPE USED  | M.EQ.   | INPUT SIGNAL                      | ADJUSTMENT        |
|---|----------------|------------|---|-----------------------------------|-------------------|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | SELF<br>REC/PB | BLANK TAPE | OSCILLOSCOPE  | 15KHz<br>Sinewave Signal<br>+0dBu | VR201 (REC P. S.) |
| Step 1.<br><br>MACHINE CONDITION  |                |            | 1. Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 5-1-P).<br>2. The PLAYBACK MASTER PHASE ADJ. (5-6) should be completed before this adjustment is done.   |                                   |                   |
| Step 2.<br><br>1. SCOPE CH1 : CH1 LINE OUT<br>SCOPE CH2 : CH2 LINE OUT<br><br>2. Make a recording.<br><br>3. Play back the just recorded portion.<br><br>4. Confirm that the phase difference is $0 \pm 3.7 \mu\text{sec}$ ( $\pm 20^\circ$ ).<br><br>5. If it is not, adjust VR201 and repeat from Item 2 to Item 4 until the phase difference becomes $0 \pm 3.7 \mu\text{sec}$ ( $\pm 20^\circ$ ). |                |            | <div style="text-align: center;">  </div> <p>or Place scope in X-Y mode and observe the pattern.<br/>Confirm both circles are in phase.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>SCOPE</p>  <p>NO GOOD</p> </div> <div style="text-align: center;"> <p>SCOPE</p>  <p>GOOD</p> </div> </div> |                                   |                   |



**5-16-P. MACHINE CONDITION SETTING  
(FOR AU-63/62 PAL LINEAR AUDIO)**

Set the switches on the Front Panel as follows except special condition for PAL VTR.

|  |       |               |
|--|-------|---------------|
| PB VR  | ----- | PRESET (PUSH) |
| METER SELECT                                   | ----- | LINEAR        |
| DOLBY  | ----- | OFF           |
| OUTPUT LEVEL SELECT ( on the Audio I/O Board ) | ----- | +0dBu         |

**5-16-N. MACHINE CONDITION SETTING  
(FOR AU-63/62 NTSC LINEAR AUDIO)**

Set the switches on the Front Panel as follows except special condition for NTSC VTR.

|  |       |               |
|--|-------|---------------|
| PB VR  | ----- | PRESET (PUSH) |
| METER SELECT                                   | ----- | LINEAR        |
| DOLBY  | ----- | OFF           |
| OUTPUT LEVEL SELECT ( on the Audio I/O Board ) | ----- | +4dBm         |

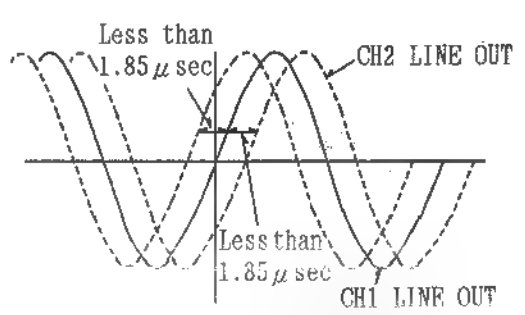

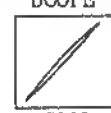
**5-17. PLAYBACK EQ CONFIRMATION  
(FOR AU-62/63 NTSC & PAL)**

( W6 AUDIO )

| TEST POINT  | MODE | TAPE USED  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT |
|---|------|--|---|--------------|------------|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE<br>F. RESPONSE<br>ADJ. PORTION | VTVM  | -----        | -----      |
| Step 1.<br>MACHINE CONDITION  |      |  | Refer to Set Up Conditions at 5-16-N or 5-16-P<br>Machine Condition Setting (for AU-63/62).             |              |            |
| Step 2.<br><br>1. Play back the Frequency Response<br>portion of the Alignment Tape.<br><br>2. Confirm that the specification is met. |      |  | SPECIFICATION : 1KHz ~ 7.5KHz = $\pm 1$ dB<br>7.5KHz ~ 15KHz = +1.5dB<br>-2.5dB<br><br>(1KHz Reference) |              |            |

### 5-18. PLAYBACK MASTER PHASE CONFIRMATION (FOR AU-62/63 NTSC & PAL)

( W6 AUDIO )

| TEST POINT  | MODE | TAPE USED                          | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                     |
|---|------|------------------------------------|---|--------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE<br>15KHz PORTION | OSCILLOSCOPE  | -----        | A/C HEAD AZIMUTH<br>ADJUSTMENT<br>(MECHANICAL) |
| Step 1.<br><br>MACHINE CONDITION  |      |                                    | 1. Refer to Set Up Conditions at 5-16-N or 5-16-P<br>Machine Condition Setting (for AU-63/62).<br>2. The PLAYBACK EQ CONFIRMATION (5-17) should be<br>completed.  |              |  |
| Step 2.<br><br>SCOPE CH1 : CH1 LINE OUT<br>SCOPE CH2 : CH2 LINE OUT<br><br>1. Play back the 15KHz portion of the<br>Alignment Tape.<br><br>2. Confirm that the phase difference is<br>$0 \pm 2.8 \mu\text{sec} (\pm 15^\circ)$ .<br><br>3. If it is not, readjust the A/C Head<br>Azimuth Mechanically (See Mech. Adj.<br>Section).<br><br>4. After this adjustment is finished,<br>reconfirm the PB EQ CONFIRMATION<br>(5-17). |      |                                    |  <p>Less than <math>1.85 \mu\text{sec}</math></p> <p>CH2 LINE OUT</p> <p>Less than <math>1.85 \mu\text{sec}</math></p> <p>CH1 LINE OUT</p> <p>or Place scope in X-Y mode and observe the pattern.<br/>Confirm both circles are in phase.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>SCOPE</p>  <p>NO GOOD</p> </div> <div style="text-align: center;"> <p>SCOPE</p>  <p>GOOD</p> </div> </div> |              |  |

### 5-19. DOLBY DECODE LEVEL ADJUSTMENT (FOR AU-62/63 NTSC & PAL)

( W6 AUDIO )

| TEST POINT                                       | MODE | TAPE USED                                | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                     |
|--|------|--|--|--------------|--|
| TP101 (CH1)<br><br>TP301 (CH2)                   | PLAY | ALIGNMENT<br>TAPE<br>1KHz 0VU<br>PORTION | VTVM   | -----        | VR103 (CH1 PB GAIN)<br><br>VR303 (CH2 PB GAIN) |
| Step 1.<br><br>MACHINE CONDITION                 |      |  | Refer to Set Up Conditions at 5-16-N or 5-16-P<br>Machine Condition Setting (for AU-63/62).                                    |              |  |
| Step 2.<br><br>VTVM : TP101 (CH1)<br>TP301 (CH2) |      |  | <p>⊙ VR103, VR303</p> <p>SPECIFICATION : <math>-6\text{dBm} \pm 0.2\text{dB}</math><br/>( <math>387.5\text{mVrms}</math> )</p> |              |  |

5-20-N. PLAYBACK OUTPUT LEVEL ADJUSTMENT  
(FOR AU-62/63 NTSC)

( W6 AUDIO )

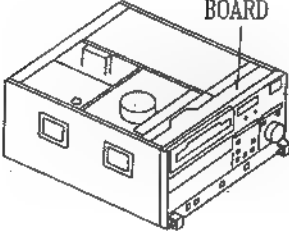
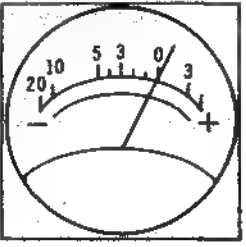
| TEST POINT  | MODE | TAPE USED                                | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|---|------|--|---|--------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE<br>1KHz OVU<br>PORTION | VTVM  | -----        | VR3 (CH1 PB OUT)<br>on Audio VR<br>VR7 (CH2 PB OUT)<br>on Audio VR |
| Step 1.<br>MACHINE CONDITION  |      |  | Refer to Set Up Conditions at 5-16-N Machine<br>Condition Setting (for AU-63/62). |              |  |
| Step 2.<br><br>VTVM : CH1 LINE OUT<br>CH2 LINE OUT<br><br>1. Adjust VR3 and VR7 on the Audio VR<br>Board so that the output level is<br>$+4\text{dBm} \pm 0.2\text{dB}$ . |      |  | ⊙ VR3, 7<br><br>SPECIFICATION : $+4\text{dBm} \pm 0.2\text{dB}$ .                 |              |  |

5-20-P. PLAYBACK OUTPUT LEVEL ADJUSTMENT  
(FOR AU-62/63 PAL)

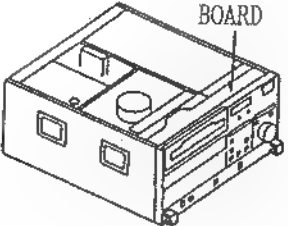
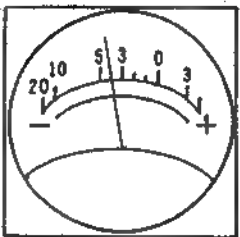
( W6 AUDIO )

| TEST POINT  | MODE | TAPE USED                                | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|---|------|--|---|--------------|--|
| CH1<br>LINE OUT<br><br>CH2<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE<br>1KHz OVU<br>PORTION | VTVM  | -----        | VR3 (CH1 PB OUT)<br>on Audio VR<br>VR7 (CH2 PB OUT)<br>on Audio VR |
| Step 1.<br>MACHINE CONDITION  |      |  | Refer to Set up Conditions at 5-16-P Machine<br>Condition Setting (for AU-63/62). |              |  |
| Step 2.<br><br>VTVM : CH1 LINE OUT<br>CH2 LINE OUT<br><br>1. Adjust VR3 and VR7 on the Audio VR<br>Board so that the output level is<br>$+0\text{dBu} \pm 0.2\text{dB}$ . |      |  | ⊙ VR3, 7<br><br>SPECIFICATION : $+0\text{dBu} \pm 0.2\text{dB}$ .                 |              |  |

# 5-21-N. METER LEVEL ADJUSTMENT (FOR AU-62/63 NTSC) (W6 AUDIO)

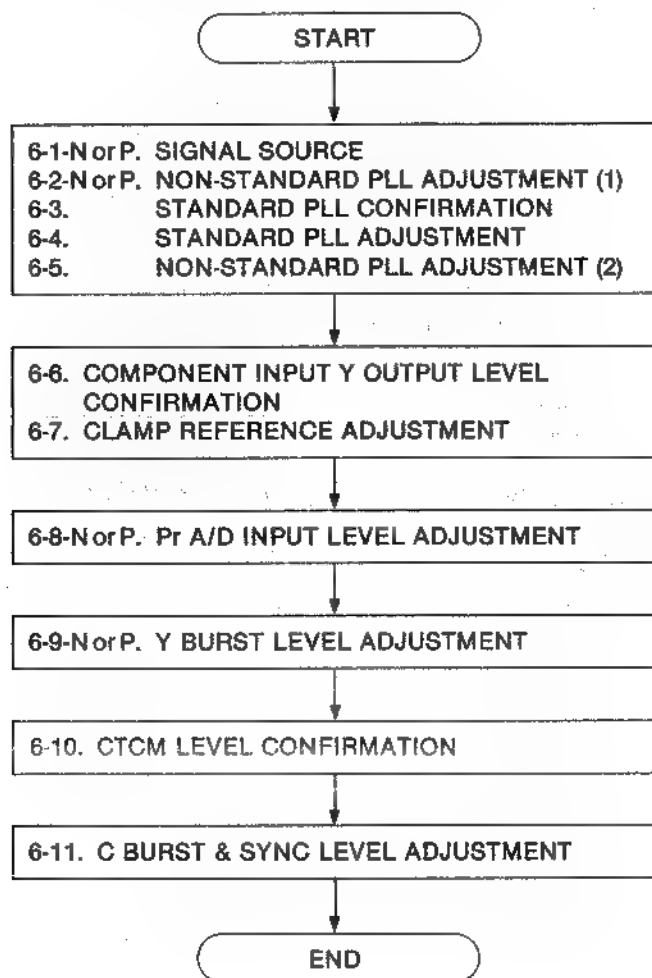
| TEST POINT   | MODE  | TAPE USED                                | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|--|-------|--|---|--------------|--|
| CH1<br>METER<br><br>CH2<br>METER   | EJECT | ALIGNMENT<br>TAPE<br>1KHz OVU<br>PORTION | -----   | -----        | VR101 (CH1 METER)<br>on Front Interface<br>VR102 (CH2 METER)<br>on Front Interface |
| Step 1.<br>MACHINE CONDITION   |       |  | Refer to Set Up Conditions at 5-16-N Machine<br>Condition Setting (for AU-63/62).   |              |  |
| Step 2.<br><br>1. Adjust VR101 (CH1) and VR102 (CH2)<br>on the Front Interface Board so that<br>the meter indicates "0" VU as shown. |       |  | <div style="display: flex; align-items: center;"> <div style="text-align: center;">  <p>FRONT INTERFACE<br/>BOARD</p> </div> <div style="margin: 0 20px;"> <p>⊗ VR101</p> <p>⊗ VR102</p> </div> <div style="text-align: center;">  </div> </div> |              |  |

# 5-21-P. METER LEVEL ADJUSTMENT (FOR AU-62/63 PAL) (W6 AUDIO)

| TEST POINT  | MODE  | TAPE USED                                | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|---|-------|--|--|--------------|--|
| CH1<br>METER<br><br>CH2<br>METER  | EJECT | ALIGNMENT<br>TAPE<br>1KHz OVU<br>PORTION | -----  | -----        | VR101 (CH1 METER)<br>on Front Interface<br>VR102 (CH2 METER)<br>on Front Interface |
| Step 1.<br>MACHINE CONDITION  |       |  | Refer to Set Up Conditions at 5-16-P Machine<br>Condition Setting (for AU-63/62).  |              |  |
| Step 2.<br><br>1. Adjust VR101 (CH1) and VR102 (CH2)<br>on the Front Interface Board so that<br>the meter indicates "-4" VU as shown. |       |  | <div style="display: flex; align-items: center;"> <div style="text-align: center;">  <p>FRONT INTERFRACE<br/>BOARD</p> </div> <div style="margin: 0 20px;"> <p>⊗ VR101</p> <p>⊗ VR102</p> </div> <div style="text-align: center;">  </div> </div> |              |  |

## 6. DECODER & CTCM (W4) BOARD (1/2) (FOR AU-65 ONLY)

### DECODER & CTCM SECTION (1/2) (W4) FLOWCHART FOR AU-65



6. DECODER & CTCM (W4) BOARD (1/2)  
(FOR AU-65 ONLY)

6-1-N. SIGNAL SOURCE (NTSC)

( W4 DEC & CTCM )

Confirm the Signal Level of Signal Generator as follows.

- |                             |   |
|-----------------------------|---|
| 1. COMPOSITE SIGNAL (NTSC)  | 75% (with 7.5% SET UP)<br>VIDEO LEVEL = 0.714Vp-p<br>SYNC LEVEL = 0.286Vp-p   |
| 2. COMPONENT SIGNAL (NTSC)  | 75% (with 7.5% SET UP)<br>Y VIDEO LEVEL = 0.7Vp-p<br>Y SYNC LEVEL = 0.3Vp-p<br>PB LEVEL = 0.486Vp-p<br>PR LEVEL = 0.486Vp-p |
| 3. Y/C SIGNAL (NTSC)        | 75% (with 7.5% SET UP)<br>Y VIDEO LEVEL = 0.714Vp-p<br>Y SYNC LEVEL = 0.286Vp-p<br>CHROMA LEVEL = 0.629Vp-p                 |
| 4. DUB (CTCM) SIGNAL (NTSC) | 75% (with 7.5% SET UP)<br>Y VIDEO LEVEL = 0.714Vp-p<br>Y SYNC LEVEL = 0.286Vp-p<br>CTCM (PR) LEVEL = 0.7Vp-p                |

6-1-P. SIGNAL SOURCE (PAL)


( W4 DEC & CTCM )

Confirm the Signal Level of Signal Generator as follows.

- |                            |  |
|----------------------------|--|
| 1. COMPOSITE SIGNAL (PAL)  | 100% (without SET UP)<br>VIDEO LEVEL = 0.7Vp-p<br>SYNC LEVEL = 0.3Vp-p   |
| 2. COMPONENT SIGNAL (PAL)  | 100% (without SET UP)<br>Y VIDEO LEVEL = 0.7Vp-p<br>Y SYNC LEVEL = 0.3Vp-p<br>PB LEVEL = 0.7Vp-p<br>PR LEVEL = 0.7Vp-p |
| 3. Y/C SIGNAL (PAL)        | 100% (without SET UP)<br>Y VIDEO LEVEL = 0.7Vp-p<br>Y SYNC LEVEL = 0.3Vp-p<br>CHROMA LEVEL = 0.885Vp-p                 |
| 4. DUB (CTCM) SIGNAL (PAL) | 100% (without SET UP)<br>Y VIDEO LEVEL = 0.7Vp-p<br>Y SYNC LEVEL = 0.3Vp-p<br>CTCM (PR) LEVEL = 0.7Vp-p                |

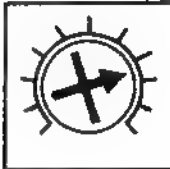
**6-2-N. NON-STANDARD PLL ADJUSTMENT (1)**  
(FOR AU-65 NTSC)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL  | ADJUSTMENT                               |
|--|----------------|-----------|---|---|--|
| TP701  | E-E<br>(EJECT) | -----     | Digital<br>Voltage<br>Meter<br>(OSCILLOSCOPE) | COMPONENT<br>75%<br>COLOR BAR   | VL701 (NSTD OFFSET)<br>VR702 (PLL POS 1) |
| Step 1.<br>MACHINE CONDITION   |                |           | STD/NSTD SELECT : NSTD<br>(Set Up Menu)       |   |  |
| Step 2.<br><br>1. D. V. M. (SCOPE) : TP701<br>2. Adjust VL701 so that the DC voltage is<br>0 ± 0.2V (DC) at TP701. |                |           | ⊙ VL701<br>TP701 = 0 ± 0.2V (DC)              |   |  |
| Step 3.<br><br>1. Set VR702 as shown in figure.  |                |           | VR702   |  |  |

**6-2-P. NON-STANDARD PLL ADJUSTMENT (1)**  
(FOR AU-65 PAL)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL   | ADJUSTMENT                               |
|--|----------------|-----------|---|--|--|
| TP701  | E-E<br>(EJECT) | -----     | Digital<br>Voltage<br>Meter<br>(OSCILLOSCOPE) | COMPONENT<br>100%<br>COLOR BAR   | VL701 (NSTD OFFSET)<br>VR702 (PLL POS 1) |
| Step 1.<br>MACHINE CONDITION   |                |           | STD/NSTD SELECT : NSTD<br>(Set Up Menu)       |  |  |
| Step 2.<br><br>1. D. V. M. (SCOPE) : TP701<br>2. Adjust VL701 so that the DC voltage is<br>0 ± 0.2V (DC) at TP701. |                |           | ⊙ VL701<br>TP701 = 0 ± 0.2V (DC)              |  |  |
| Step 3.<br><br>1. Set VR702 as shown in figure.  |                |           | VR702   |  |  |

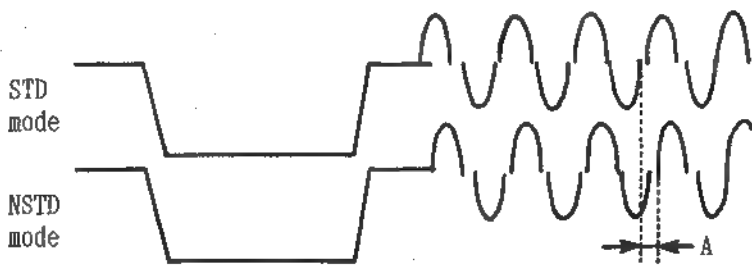
### 6-3. STANDARD PLL CONFIRMATION (FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT |
|---|----------------|-----------|--|------------------------|------------|
| TP702   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>COLOR BAR | -----      |
| Step 1.<br>MACHINE CONDITION<br>( STD mode )  |                |           | 1. Set-up Menu No. 1011 → 00 FRONT SWITCH<br>2. Input signal is standard signal from signal generator. |                        |            |
| Step 2.<br>1. SCOPE : TP702<br>2. Confirm that the DC voltage is<br>$0 \pm 1V$ (DC) at TP702. |                |           | TP702 = $0 \pm 1V$ (DC)  |                        |            |

### 6-4. STANDARD PLL ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL           | ADJUSTMENT        |
|---|----------------|-----------|---|------------------------|-------------------|
| TP504   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>COLOR BAR | VR703 (PLL POS 2) |
| Step 1.<br>MACHINE CONDITION<br>( STD mode )  |                |           | 1. Set-up Menu No. 1011 → 00 FRONT SWITCH<br>2. Input signal is standard signal from signal generator.                          |                        |                   |
| Step 2.<br>1. SCOPE : TP504<br>2. Trigger the scope at composite sync of<br>signal generator.<br>3. Change the STD/NSTD by Set-up Menu<br>alternately.<br>4. Confirm that the phase difference ("A")<br>is less than 10 nsec. |                |           | TP504 ∅ VR703<br><br>A = Less than 10 nsec. |                        |                   |



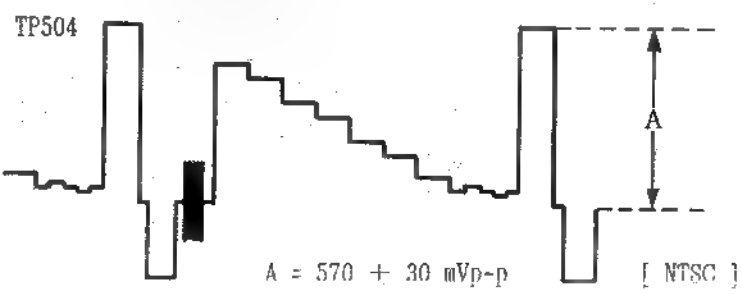
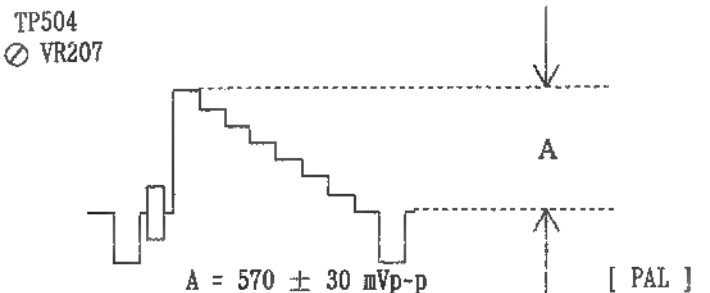
# 6-5. NON-STANDARD PLL ADJUSTMENT (2) (FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT        |
|---|----------------|-----------|--|------------------------|-------------------|
| TP703   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>COLOR BAR | VR702 (PLL POS 1) |
| Step 1.<br>MACHINE CONDITION<br>( STD mode )  |                |           | 1. Set-up Menu No. 1011 → 00 FRONT SWITCH<br>2. Input signal is standard signal from signal generator. |                        |                   |
| Step 2.<br><br>1. SCOPE : TP703<br>2. Trigger the scope at composite sync of signal generator.<br>3. Change the STD/NSTD by Set-up Menu alternately.<br>4. Confirm that the pulse position is same at STD mode and NSTD mode. (STD mode is reference)<br>5. If it is not, adjust VR702 so that the NSTD pulse position is same as STD pulse position. (Less than $\pm 10\text{nsec.}$ ) |                |           | <div> <div> TP703<br/> ⊙ VR702 </div> <div> </div> </div>  |                        |                   |

# 6-6. COMPONENT INPUT Y OUTPUT LEVEL CONFIRMATION (FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                   | ADJUSTMENT |
|--|----------------|-----------|---|--------------------------------|------------|
| TP504  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOR BAR | -----      |
| Step 1.<br>MACHINE CONDITION   |                |           | 1. INPUT SELECT : COMPONENT<br>(on Pull Out Drawer)<br>2. YC/COMPONENT SELECT : COMPONENT<br>(on Front Sub Panel) |                                |            |
| Step 2. [NTSC]<br><br>1. SCOPE : TP504<br>2. Confirm that the VIDEO Level (A) is<br>$570 \pm 30\text{mVp-p}$ . |                |           |                                |                                |            |
| Step 2. [PAL]<br><br>1. SCOPE : TP504<br>2. Confirm that the VIDEO Level (A) is<br>$570 \pm 30\text{mVp-p}$ .  |                |           |                               |                                |            |

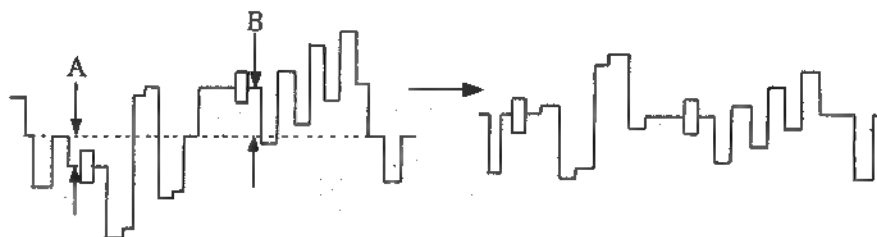
# 6-7. CLAMP REFERENCE ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT | MODE           | TAPE USED | M.EQ.        | INPUT SIGNAL           | ADJUSTMENT                                   |
|------------|----------------|-----------|--------------|------------------------|--|
| TP601      | E-E<br>(EJECT) | -----     | OSCILLOSCOPE | COMPONENT<br>COLOR BAR | VR601 (PB CLAMP REF)<br>VR602 (PR CLAMP REF) |

## Step 1.

1. Adjust VR601 and VR602 so that level differences of "A" and "B" portion are minimum as shown in figure.

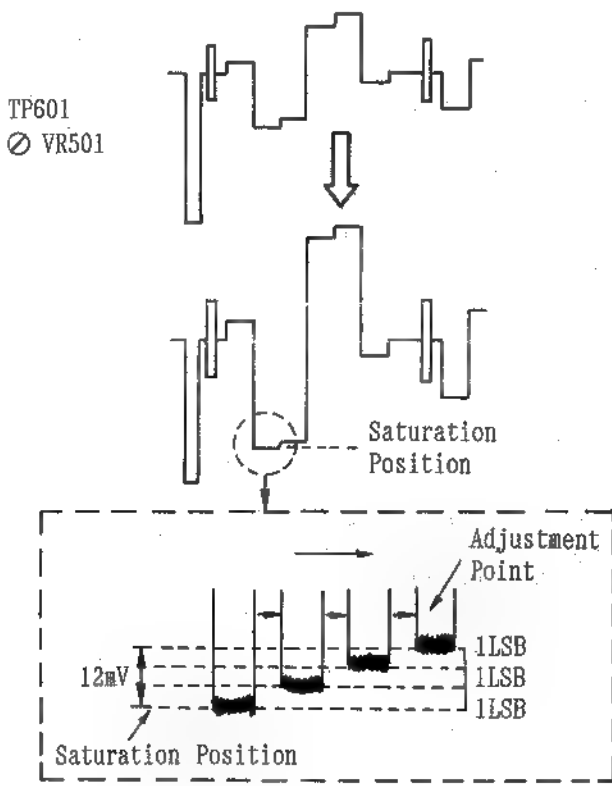


## Note:

Expand the level of measurement portion on scope for precise adjustment.

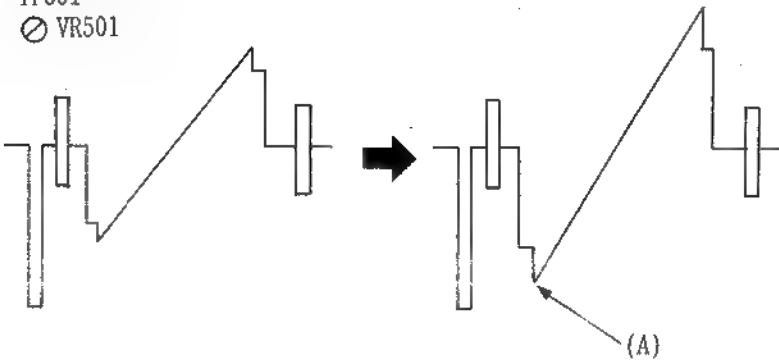
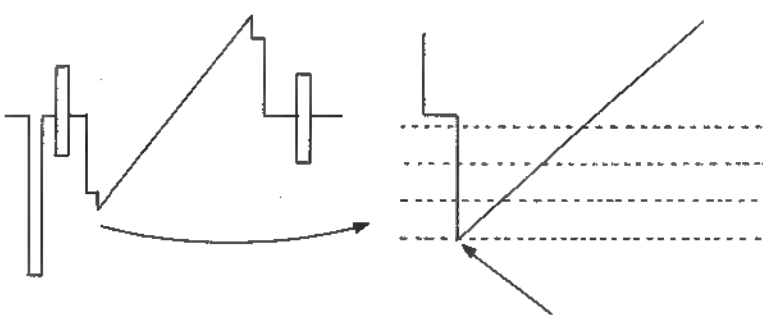
# 6-8-N. Pr A/D INPUT LEVEL ADJUSTMENT (FOR AU-65 NTSC)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                   | ADJUSTMENT                     |
|--|----------------|-----------|---|--------------------------------|--------------------------------|
| TP601  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOR BAR | VR501 (Pr LEV. 2)<br><br>SW701 |
| Step 1.<br><br>CONDITION   |                |           | SCOPE SETTING<br>1. This adjustment needs 1 : 1 probe.<br>2. MODE : ADD             |                                |                                |
| Step 2.<br><br>1. SCOPE CH1 : TP601<br>SCOPE CH2 : NO SIGNAL<br><br>2. SW701 : ADJ side<br><br>3. Adjust VR501 so that the cyan portion level becomes just saturated level as shown in figure. |                |           |  |                                |                                |
| Step 3.<br><br>1. SCOPE SETTING : 50mV/DIV.<br><br>2. Adjust VR501 so that the cyan portion level is offset by 12mV from the saturated point as shown in figure.<br><br>3. SW701 : NORM side   |                |           |   |                                |                                |

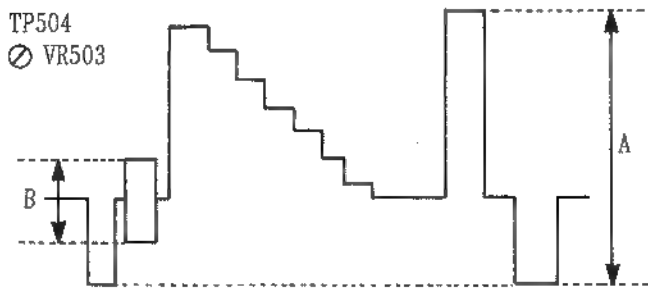
# 6-8-P. Pr A/D INPUT LEVEL ADJUSTMENT (FOR AU-65 PAL)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL               | ADJUSTMENT                 |
|---|----------------|-----------|---|----------------------------|----------------------------|
| TP601   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>OVERSIZE RAMP | VR501 (Pr LEV. 2)<br>SW701 |
| Step 1.<br>CONDITION  |                |           | SCOPE SETTING<br>1. This adjustment needs 1 : 1 probe.<br>2. MODE : ADD                                 |                            |                            |
| Step 2. (CORSE)<br><br>1. SCOPE CH1 : TP601<br>SCOPE CH2 : NO SIGNAL<br><br>2. SW701 : ADJ side<br><br>3. Adjust VR501 so that the portion<br>(A) level becomes just saturated<br>as shown in figure. |                |           | TP601<br>○ VR501<br> |                            |                            |
| Step 3. (FINE)<br><br>1. SCOPE SETTING : 50mV/DIV.<br><br>2. Adjust VR501 so that the cyan portion<br>(A) level is just at the saturation<br>point as shown in figure.<br><br>3. SW701 : NORM side    |                |           |                     |                            |                            |

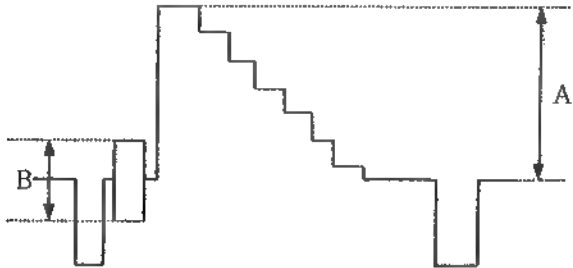
**6-9-N. Y BURST LEVEL ADJUSTMENT  
(FOR AU-65 NTSC)**

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                  | ADJUSTMENT        |
|---|----------------|-----------|---|-------------------------------|-------------------|
| TP504   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>75%<br>COLOR BAR | VR503 (Y BU LEV.) |
| Step 1.<br><br>1. SCOPE : TP504<br><br>2. Adjust VR503 so that $A : B = 10 : 3 \pm 0.3$ as shown in figure. |                |           |  <p style="text-align: center;"><math>A : B = 10 : 3 \pm 0.3</math></p> |                               |                   |

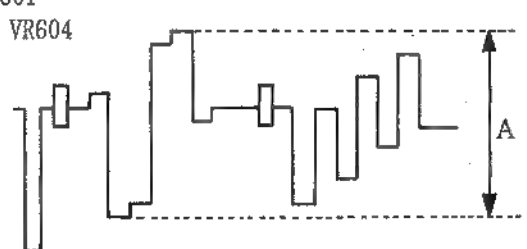
**6-9-P. Y BURST LEVEL ADJUSTMENT  
(FOR AU-65 PAL)**

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                   | ADJUSTMENT        |
|--|----------------|-----------|--|--------------------------------|-------------------|
| TP504  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100%<br>COLOR BAR | VR503 (Y BU LEV.) |
| Step 1.<br><br>1. SCOPE : TP504<br><br>2. Adjust VR503 so that $A : B = 7 : 3 \pm 0.3$ as shown in figure. |                |           |  <p style="text-align: center;"><math>A : B = 7 : 3 \pm 0.3</math></p> |                                |                   |

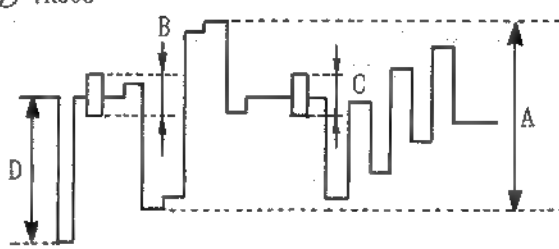
# 6-10. CTCM LEVEL CONFIRMATION (FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                                       | ADJUSTMENT        |
|--|----------------|-----------|---|--|-------------------|
| TP601  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | VR604 (CTCM LEV.) |
| <p>Step 1.</p> <p>1. SCOPE : TP601</p> <p>2. Adjust VR604 so that the Pr peak to peak level (A) is <math>670 \pm 8\text{mVp-p}</math>.</p> |                |           | <p>TP601<br/>⊗ VR604</p>  <p><math>A = 670 \pm 8\text{mVp-p}</math></p> |  |                   |

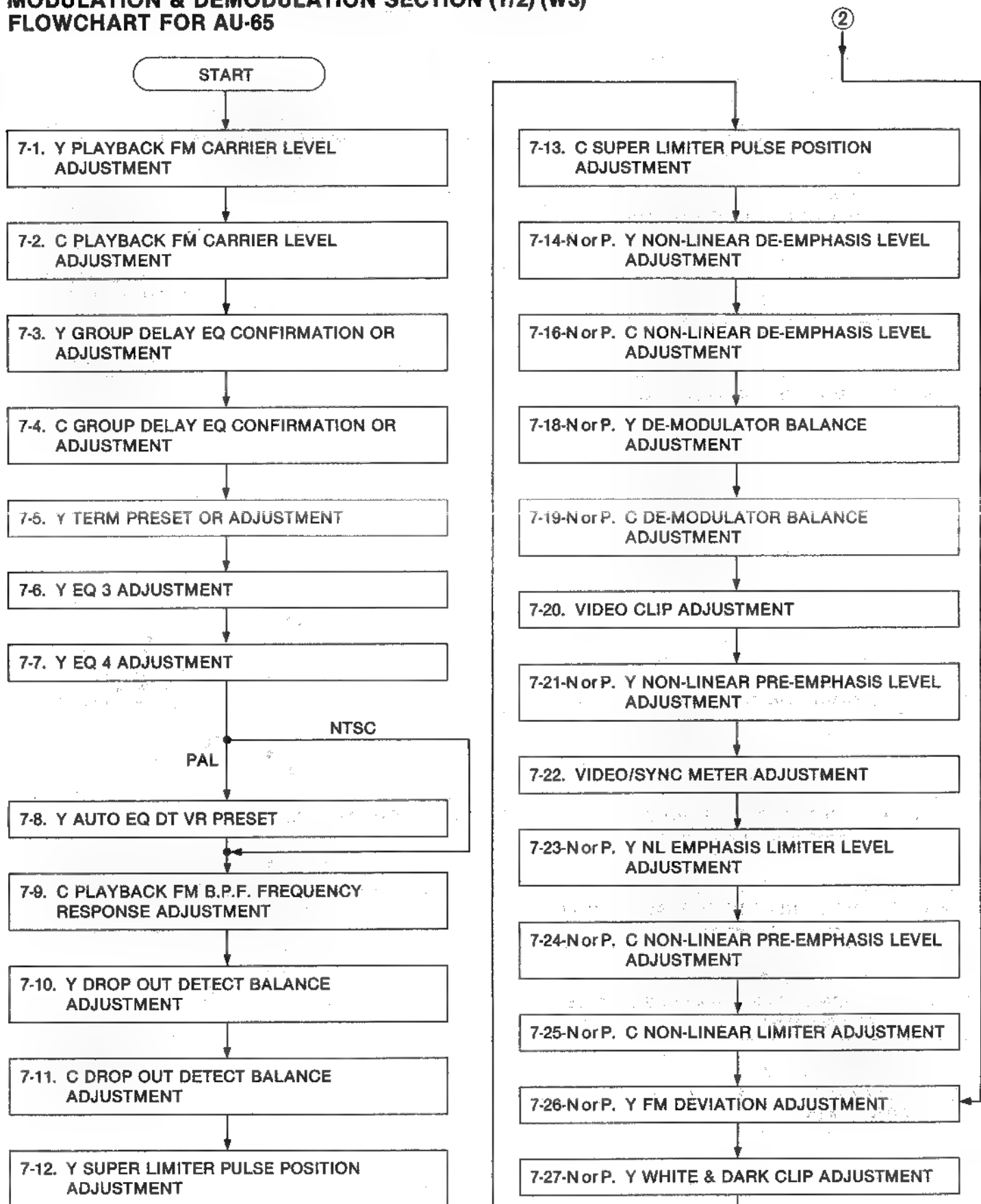
# 6-11. C BURST & SYNC LEVEL ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

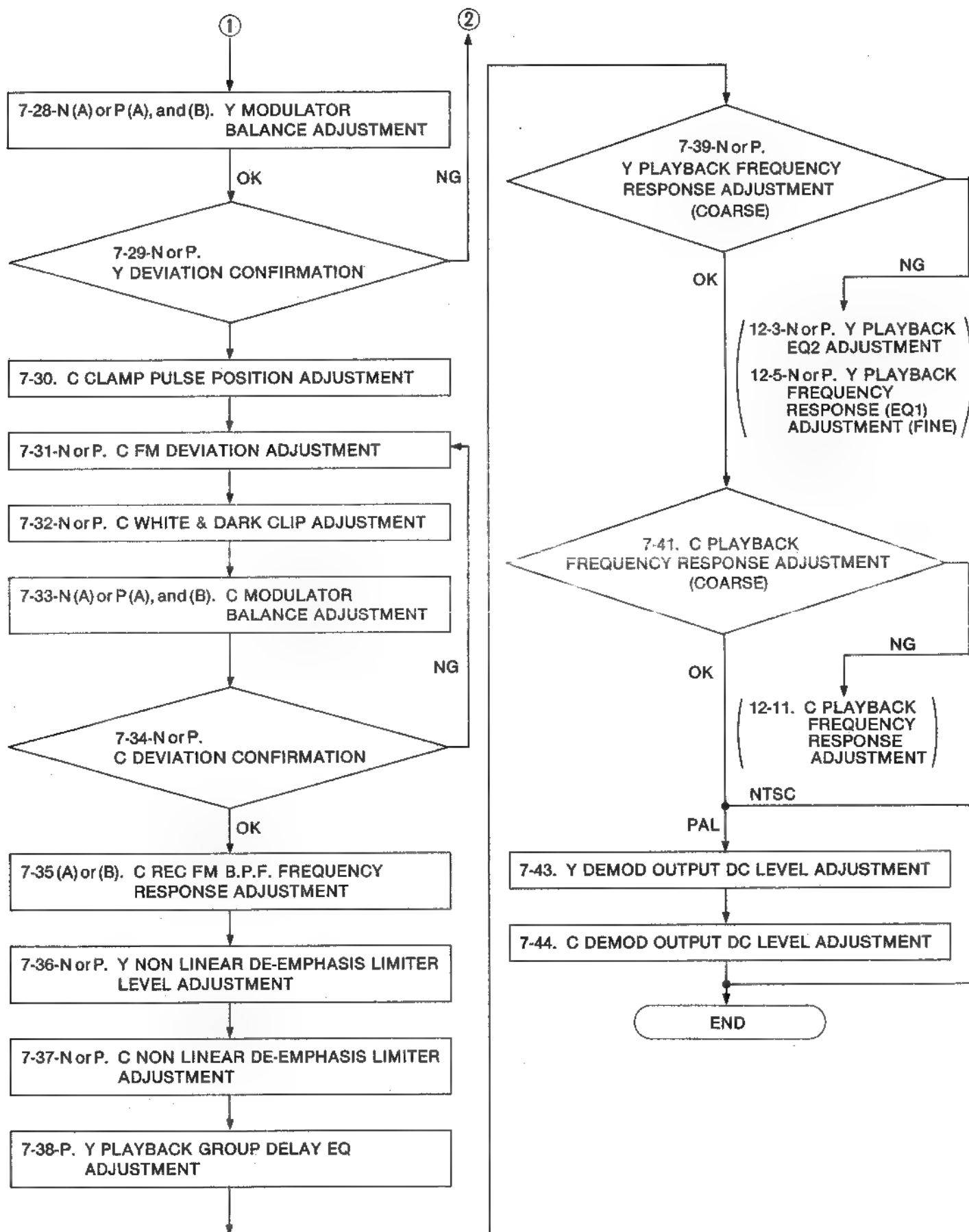
| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                                       | ADJUSTMENT                             |
|--|----------------|-----------|---|--|--|
| TP601  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | VR504 (C BU LEV.)<br>VR603 (C SY LEV.) |
| <p>Step 1.</p> <p>1. SCOPE : TP601</p> <p>2. Adjust VR504 so that <math>A : B (C) = 7 : 3</math> (<math>\pm 0.09</math>) as shown in figure set A to 7 divisions using uncal control.</p> <p>3. Adjust VR603 so that <math>A : D = 7 : 6.5</math> (<math>\pm 0.2</math>) as shown in figure.</p> <p>Note:<br/>When adjust VR504, expand the time/div of the scope.</p> |                |           | <p>TP601<br/>⊗ VR504<br/>⊗ VR603</p>  <p><math>A : B (C) = 7 : 3 (\pm 0.09)</math><br/><math>A : D = 7 : 6.5 (\pm 0.2)</math></p> |  |  |

## 7. MODULATION & DEMODULATION (W3) BOARD (1/2)

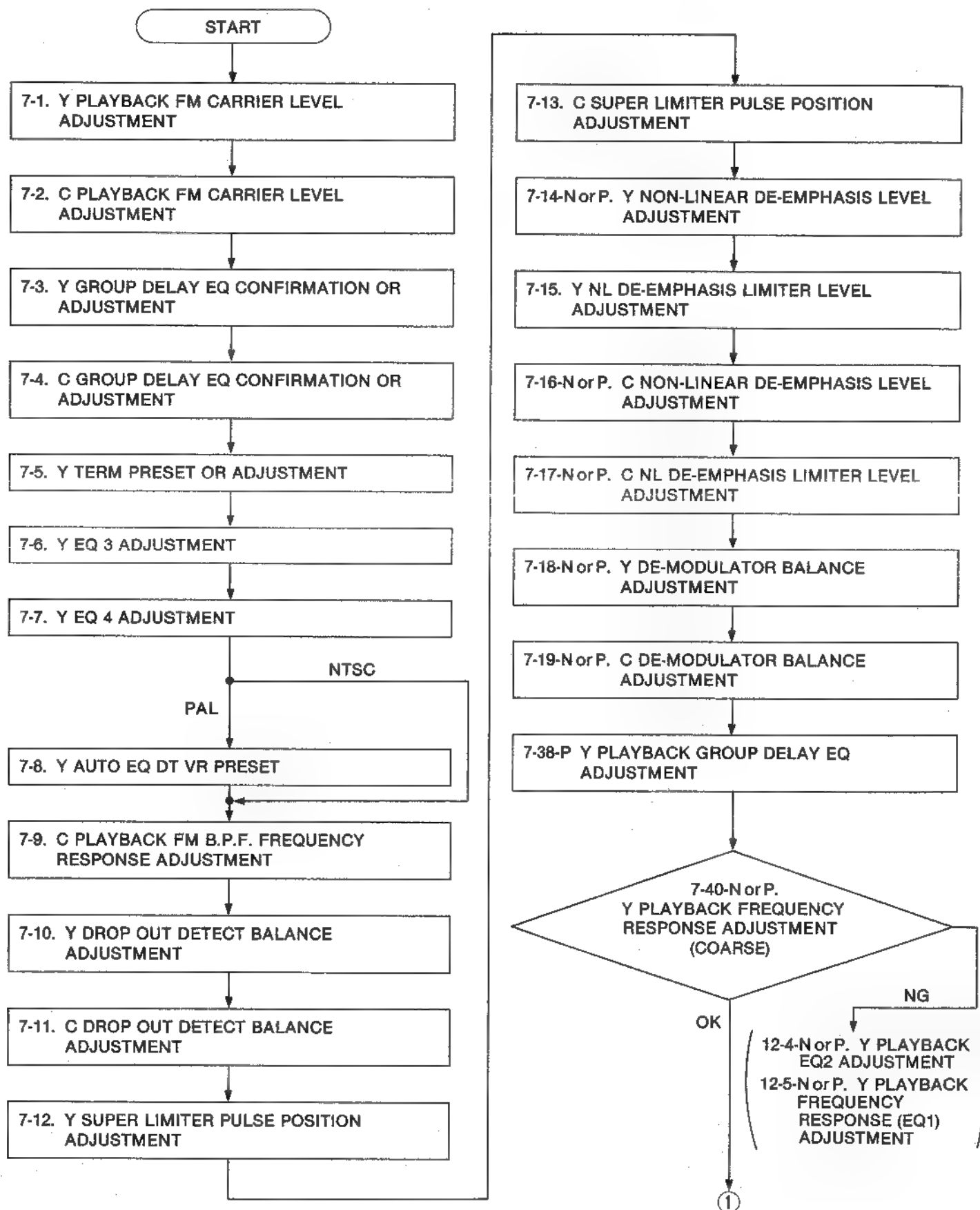
### MODULATION & DEMODULATION SECTION (1/2) (W3) FLOWCHART FOR AU-65

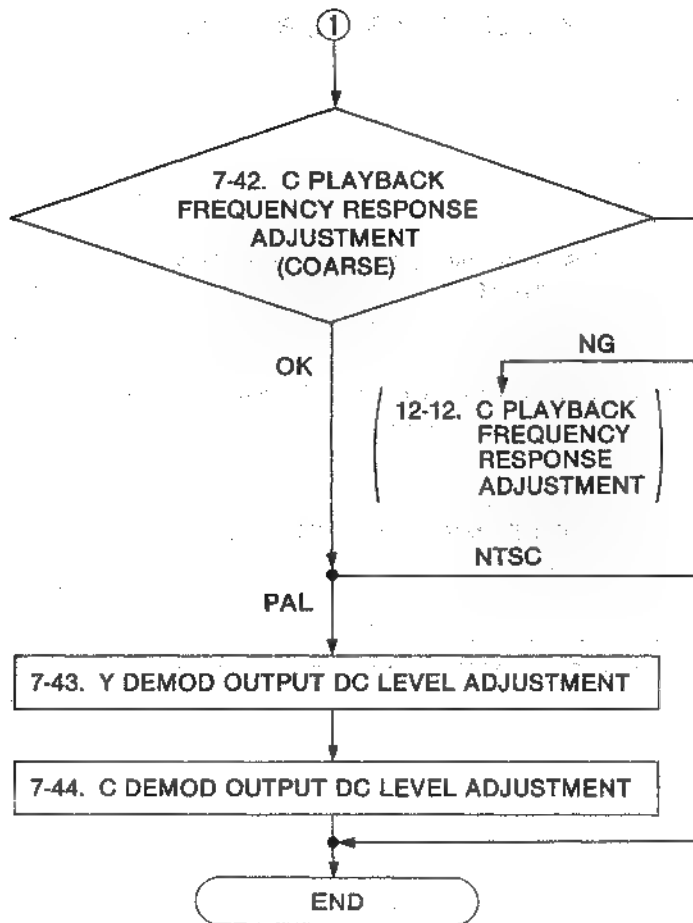




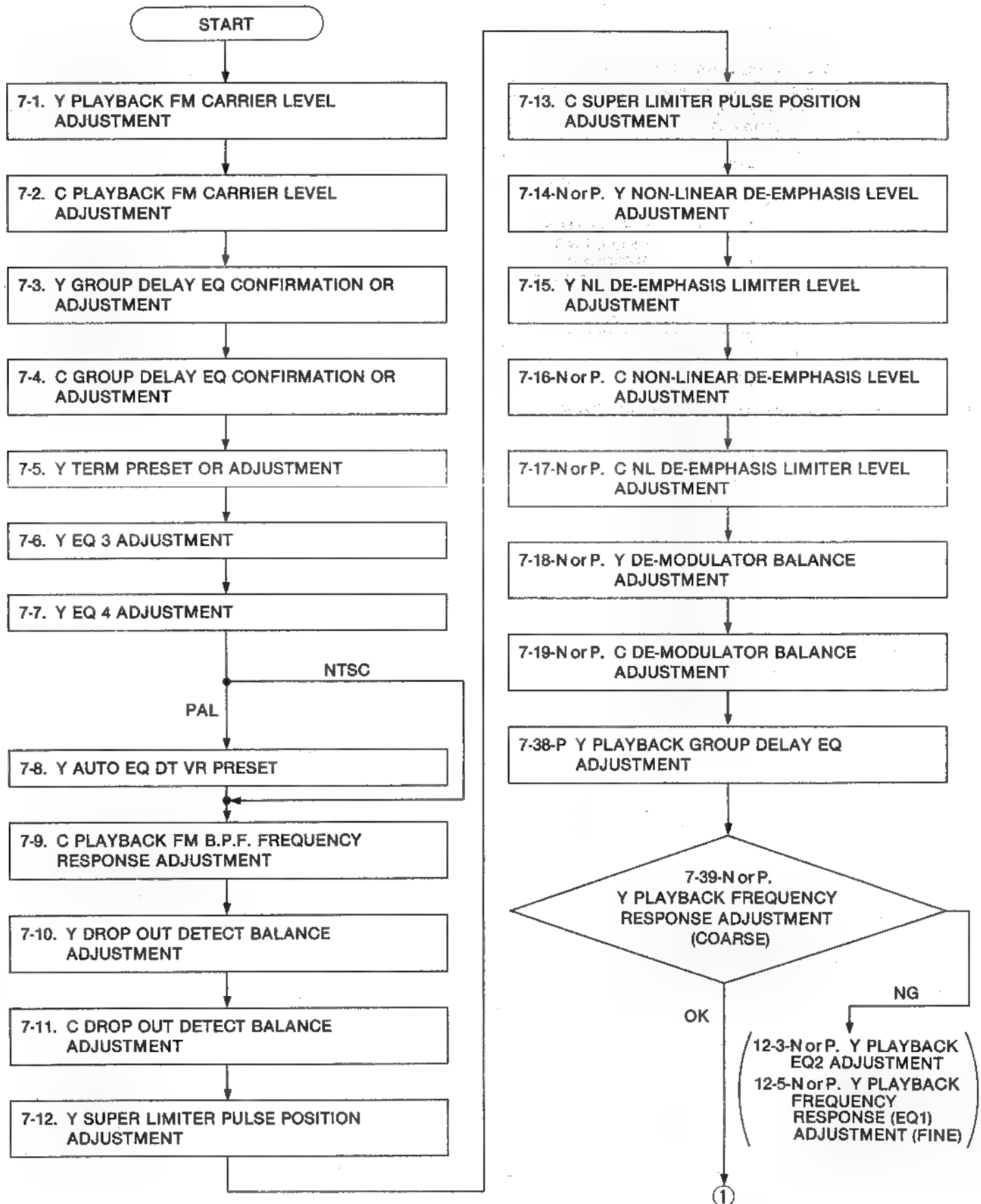


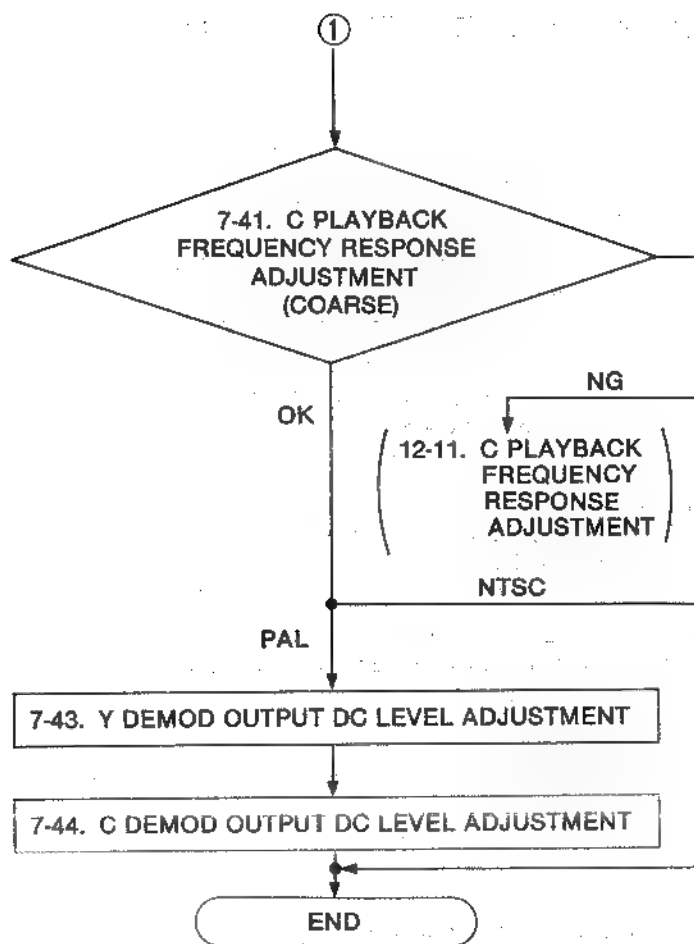
# MODULATION & DEMODULATION SECTION (1/2) FLOWCHART (W3) FOR AU-63





# MODULATION & DEMODULATION SECTION (1/2) (W3) FLOWCHART FOR AU-62



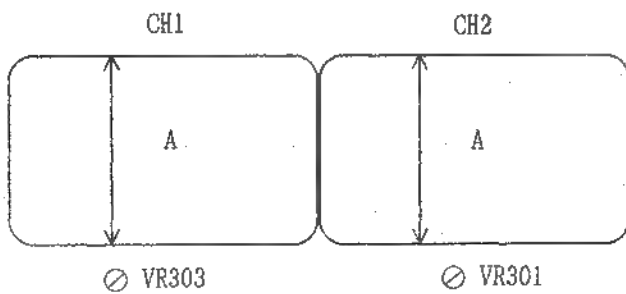


## 7. MODULATION & DEMODULATION (W3) BOARD (1/2)

### 7-1. Y PLAYBACK FM CARRIER LEVEL ADJUSTMENT

(FOR AU-65/AU-63/AU-62 NTSC & PAL)

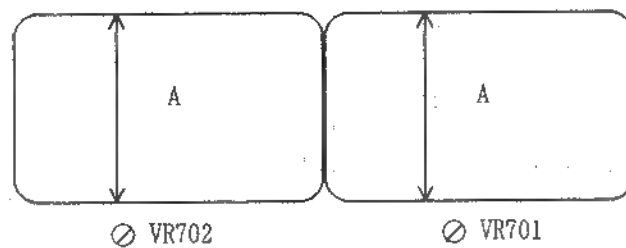
( W3: MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|--|------|--------------------------------|---|--------------|--|
| TP301<br>F29-AB<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE  | -----        | VR301<br><R/P (AT) CH2 LEV><br>VR303<br><R/P (AT) CH1 LEV> |
| 1. SCOPE CH1 : TP301<br>SCOPE CH2 : F29-AB EDGE CONNECTOR<br>(on W3) For Trigger<br><br>2. Adjust VR301 and VR303 so that the<br>signal level at TP301 is $400 \pm 20\text{mVp-p}$ . |      |                                | TP301<br><br><br>$A = 400 + 20\text{mVp-p}$ |              |  |

### 7-2. C PLAYBACK FM CARRIER LEVEL ADJUSTMENT

(FOR AU-65/AU-63/AU-62 NTSC & PAL)

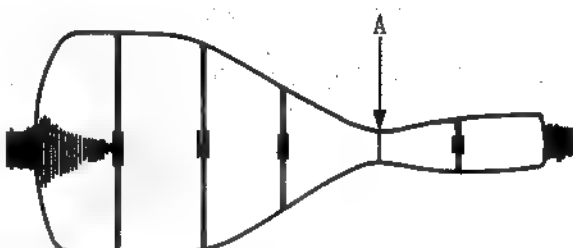
( W3: MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                       |
|--|------|--------------------------------|---|--------------|--|
| TP701<br>F33-AB<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE  | -----        | VR701<br>(R/P CH2 LEV)<br>VR702<br>(R/P CH1 LEV) |
| 1. SCOPE CH1 : TP701<br>SCOPE CH2 : F33-AB EDGE CONNECTOR<br>(on W3) For Trigger<br><br>2. Adjust VR701 and VR702 so that the<br>signal level at TP701 is $400 \pm 20\text{mVp-p}$ . |      |                                | TP701<br><br><br>$A = 400 \pm 20\text{mVp-p}$ |              |  |

### 7-3. Y GROUP DELAY EQ CONFIRMATION OR ADJUSTMENT

(FOR AU-65/AU-63/AU-62 NTSC & PAL)

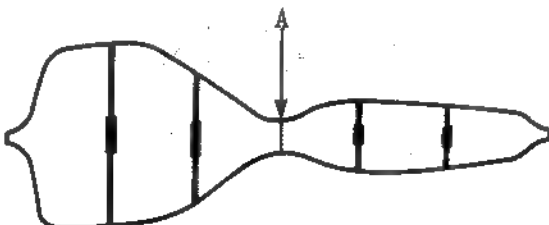
( W3: MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                     | M.EQ.   | INPUT SIGNAL | ADJUSTMENT        |
|---|------|-------------------------------|---|--------------|-------------------|
| TP302   | PLAY | ALIGNMENT<br>TAPE<br>RF SWEEP | OSCILLOSCOPE  | -----        | VL301 (Y G-D, EQ) |
| Step 1.<br>MACHINE CONDITION  |      |                               | TJ301 (on W3) : OPEN CONTACT  |              |                   |
| Step 2.   |      |                               | <p>TP302    ∅    VL301</p>  <p>NTSC    A = <math>8.0 \pm 0.1\text{MHz}</math><br/>PAL    A = <math>7.7 \pm 0.1\text{MHz}</math></p> |              |                   |
| <p>1. SCOPE : TP302</p> <p>2. Adjust VL301 so that the trap frequency (A) of line sweep becomes</p> <p>NTSC    <math>8.0 \pm 0.1\text{MHz}</math><br/>PAL    <math>7.7 \pm 0.1\text{MHz}</math></p> <p>3. TJ301 (on W3) : CLOSE CONTACT</p> |      |                               |   |              |                   |

### 7-4. C GROUP DELAY EQ CONFIRMATION OR ADJUSTMENT

(FOR AU-65/AU-63/AU-62 NTSC & PAL)

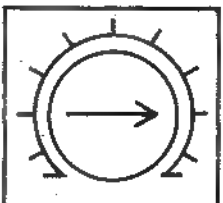
( W3: MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                     | M.EQ.   | INPUT SIGNAL | ADJUSTMENT         |
|---|------|-------------------------------|---|--------------|--------------------|
| TP702   | PLAY | ALIGNMENT<br>TAPE<br>RF SWEEP | OSCILLOSCOPE  | -----        | VL701 (C G, D, EQ) |
| Step 1.<br>MACHINE CONDITION  |      |                               | TJ701 (on W3) : OPEN CONTACT  |              |                    |
| Step 2.   |      |                               | <p>TP702    ∅    VL701</p>  <p>A = <math>6.0 \pm 0.1\text{MHz}</math></p> |              |                    |
| <p>1. SCOPE : TP702</p> <p>2. Adjust VL701 so that the trap frequency (A) of line sweep becomes <math>6.0 \pm 0.1\text{MHz}</math>.</p> <p>3. TJ701 (on W3) : CLOSE CONTACT</p> |      |                               |   |              |                    |

### 7-5. Y TERM PRESET POSITION OR ADJUSTMENT (FOR AU-65/AU-63/AU-62 NTSC & PAL)

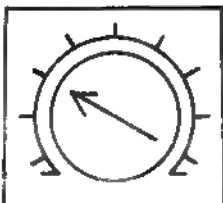
( W3: MOD & DEMOD )

Note : Before performing this adjustment STEP, you need to "PRE-SET" the following pots : VR309, VR311, VR310.

|   |   |
|---|---|
| <p>Step 1.</p> <p>1. Preset VR309 (TERM) to the 3 o'clock position.</p> | <p>⊗ VR309</p>  |
|---|---|

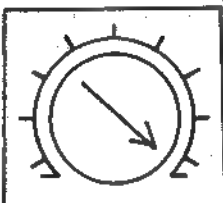
### 7-6. Y EQ 3 ADJUSTMENT (FOR AU-65/AU-63/AU-62 NTSC & PAL)

( W3: MOD & DEMOD )

|   |  |
|---|--|
| <p>Step 1.</p> <p>1. Preset VR311 (EQ3) to the 10 o'clock position.</p> | <p>⊗ VR311</p>  |
|---|--|

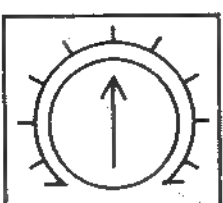
### 7-7. Y EQ 4 ADJUSTMENT (FOR AU-65/AU-63/AU-62 NTSC & PAL)

( W3: MOD & DEMOD )

|  |   |
|--|---|
| <p>Step 1.</p> <p>1. Turn VR310 fully clockwise.</p> | <p>⊗ VR310</p>  |
|--|---|

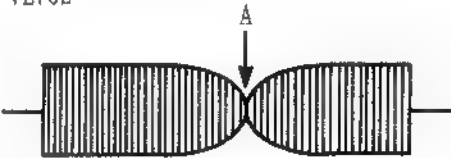
### 7-8. Y AUTO EQ DT VR PRESET (FOR AU-65/AU-63/AU-62 PAL)

( W3: MOD & DEMOD )


|  |   |
|--|---|
| <p>Step 1.</p> <p>Note:<br/>This adjustment is PAL model only.</p> <p>1. Preset VR 328 (A EQ DT V) to the center position.</p> | <p>⊗ VR328</p>  |
|--|---|




**7-9. C PLAYBACK FM B.P.F. FREQUENCY RESPONSE ADJUSTMENT**  
(FOR AU-65/AU-63/AU-62 NTSC & PAL) (W3: MOD & DEMOD)

| TEST POINT  | MODE | TAPE USED                     | M.EQ.  | INPUT SIGNAL | ADJUSTMENT         |
|---|------|-------------------------------|--|--------------|--------------------|
| TP703   | PLAY | ALIGNMENT<br>TAPE<br>RF SWEEP | OSCILLOSCOPE   | -----        | VL702 (C BPF F.R.) |
| Step 1.<br>MACHINE CONDITION  |      |                               | SW704 (on W3) : OFF<br>TJ702 (on W3) : OPEN CONTACT  |              |                    |
| Step 2.<br><br>1. SCOPE : TP703<br><br>2. Adjust VL702 so that the trap frequency<br>(A) of line sweep becomes<br>NTSC $6.3 \pm 0.1\text{MHz}$<br>PAL $8.0 \pm 0.1\text{MHz}$ |      |                               | TP703 $\odot$ VL702<br><br><br>NTSC A = $6.3 \pm 0.1\text{MHz}$<br>PAL A = $8.0 \pm 0.1\text{MHz}$ |              |                    |
| Step 3.<br><br>RESET MACHINE CONDITION  |      |                               | SW704 (on W3)<br>[ NTSC ] : OFF<br>[ PAL ] : ON<br>TJ702 (on W3)<br>CLOSE CONTACT  |              |                    |



**7-10. Y DROP OUT DETECT BALANCE ADJUSTMENT**  
(FOR AU-65/AU-63/AU-62 NTSC & PAL) (W3: MOD & DEMOD)

| TEST POINT   | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                 |
|--|------|--------------------------------|---|--------------|--|
| TP307<br>F29-AB<br>(Trigger)<br>TP308  | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE  | -----        | VR317 (LIM IN RF LEV.)<br>VR321 (Y DO BAL) |
| Step 1.<br>MACHINE CONDITION   |      |                                | SW304 (on W3) : OFF   |              |  |
| Step 2.<br><br>1. SCOPE CH1 : TP307<br>SCOPE CH2 : F29-AB TERMINAL<br>(Trigger)<br><br>2. Turn VL317 fully clockwise until the<br>RF level becomes 0 (zero). |      |                                | TP307 $\odot$ VR317<br><br> |              |  |
| Step 3.<br><br>1. SCOPE : TP308<br>2. SCOPE MODE : DC MODE<br>3. Adjust VR321 for minimum DC Level.  |      |                                |   |              |  |

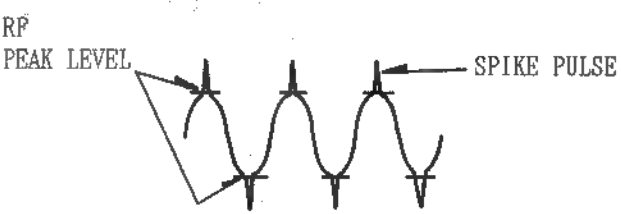
|  |  |
|--|--|
| <p>Step 4.</p> <p>1. SCOPE CH1 : TP307<br/>SCOPE CH2 : F29-AB TERMINAL<br/>(Trigger)</p> <p>2. Adjust VR317 so that the RF level becomes 300mVp-p.</p> | <p>TP307 <math>\odot</math> VR317</p>  |
| <p>Step 5.</p> <p>1. SW304 : ON (SUPER LIMITER ON)</p>   |  |

**7-11. C DROP OUT DETECT BALANCE ADJUSTMENT**  
(FOR AU-65/AU-63/AU-62 NTSC & PAL)

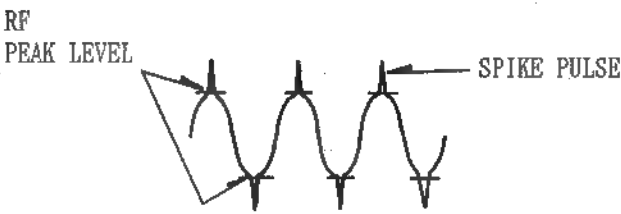
( W3: MOD & DEMOD )

| TEST POINT   | MODE   | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT                                 |
|--|--|--------------------------------|--------------|--------------|--|
| TP703<br>TP704   | PLAY   | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR714 (LIM IN RF LEV.)<br>VR718 (Y DO BAL) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>  | <p>SW704 (on W3) : OFF</p>   |                                |              |              |  |
| <p>Step 2.</p> <p>1. SCOPE CH1 : TP703<br/>SCOPE CH2 : F33-AB TERMINAL<br/>(Trigger)</p> <p>2. Turn VR714 fully clockwise until the RF level becomes 0 (zero).</p> | <p>TP703 <math>\odot</math> VR714</p>  |                                |              |              |  |
| <p>Step 3.</p> <p>1. SCOPE : TP704<br/>2. SCOPE MODE : DC MODE<br/>3. Adjust VR718 for minimum DC Level.</p>   |  |                                |              |              |  |
| <p>Step 4.</p> <p>1. SCOPE CH1 : TP703<br/>SCOPE CH2 : F33-AB TERMINAL<br/>(Trigger)</p> <p>2. Adjust VR714 so that the RF level becomes 300mVp-p.</p>             | <p>TP703 <math>\odot</math> VR714</p>  |                                |              |              |  |
| <p>Step 5.</p> <p>1. SW704 : OFF</p>   | <p>At this time, SW704 isn't used, leave it in the OFF position.</p>   |                                |              |              |  |

**7-12. Y SUPER LIMITER PULSE POSITION ADJUSTMENT**  
(FOR AU-65/AU-63/AU-62 NTSC & PAL) (W3: MOD & DEMOD)

| TEST POINT  | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT       |
|---|------|--------------------------------|---|--------------|------------------|
| TP307   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE  | -----        | VC301 (Y P. POS) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Play back the color bar portion of the Alignment Tape.</li> <li>2. SCOPE : TP307</li> <li>3. SCOPE SETTING : without 20MHz Filter</li> <li>4. SW304 : ON (Super Limiter function)</li> <li>5. Adjust VC301 so that the spike pulse is located on the RF peak position as shown in figure.</li> </ol> |      |                                | <p>TP307    <math>\odot</math> VC301</p>  <p>SCOPE TIME/DIV : 5 nsec (Max.)</p> |              |                  |

**7-13. C SUPER LIMITER PULSE POSITION ADJUSTMENT**  
(FOR AU-65/AU-63/AU-62 NTSC & PAL) (W3: MOD & DEMOD)

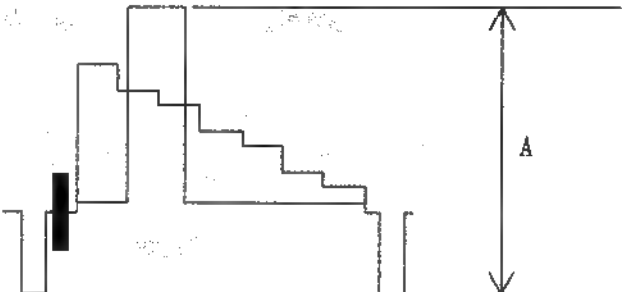
| TEST POINT  | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT       |
|---|------|--------------------------------|---|--------------|------------------|
| TP703   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE  | -----        | VC701 (C P. POS) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Play back the color bar portion of the Alignment Tape.</li> <li>2. SCOPE : TP703</li> <li>3. SCOPE SETTING : without 20MHz Filter</li> <li>4. SW704 : ON (Super Limiter function)</li> <li>5. Adjust VC701 so that the spike pulse is located on the RF peak position as shown in figure.</li> </ol> <p>Note [NTSC]:<br/>The chroma super limiter function is not used at this time in NTSC model.</p> |      |                                | <p>TP703    <math>\odot</math> VC701</p>  <p>SCOPE TIME/DIV : 5 nsec (Max.)</p> |              |                  |

**7-14-N. Y NON-LINEAR DE-EMPHASIS LEVEL ADJUSTMENT**  
**(FOR AU-65/AU-63/AU-62 NTSC)** ( W3: MOD & DEMOD )

| TEST POINT | MODE | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT        |
|------------|------|--------------------------------|--------------|--------------|-------------------|
| TP309      | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR322<br>(NL LEV) |

TP309  $\odot$  VR322



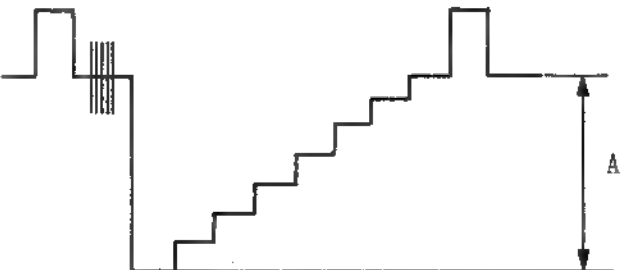
$A = 2.5 \pm 0.03V_{p-p}$

**7-14-P. Y NON-LINEAR DE-EMPHASIS LEVEL ADJUSTMENT**  
**(FOR AU-65/AU-63/AU-62 PAL)** ( W3: MOD & DEMOD )

| TEST POINT | MODE | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT        |
|------------|------|--------------------------------|--------------|--------------|-------------------|
| TP309      | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR322<br>(NL LEV) |

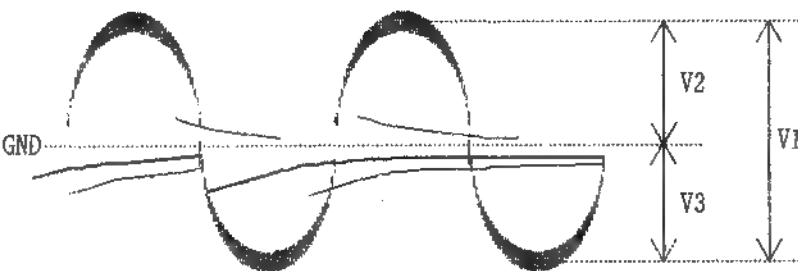
TP309  $\odot$  VR322



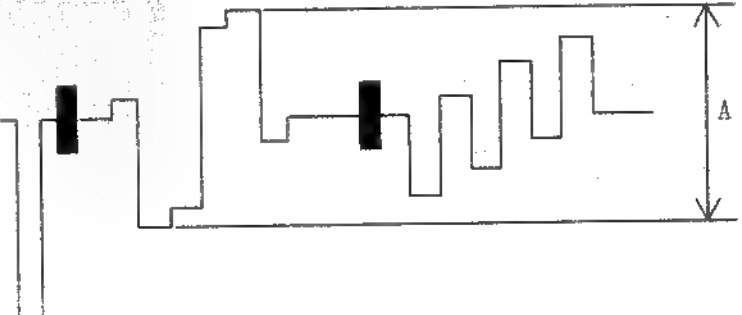
$A = 1.1 \pm 0.02V_{p-p}$

7-15. Y NL DE-EMPHASIS LIMITER LEVEL ADJUSTMENT  
(FOR AU-62/63 NTSC & PAL)

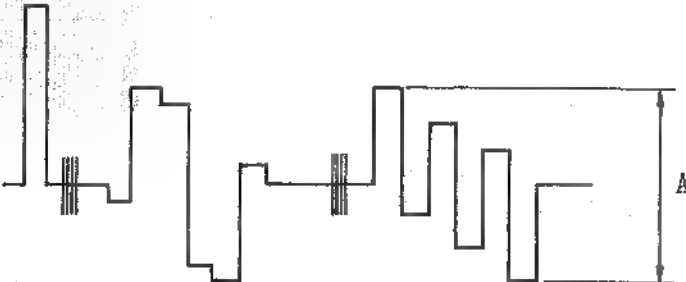
( W3: MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                         | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                     |
|---|------|-----------------------------------|--|--------------|--|
| TP310   | PLAY | ALIGNMENT<br>TAPE<br>100% BOW TIE | OSCILLOSCOPE   | -----        | VR323<br>(NL LIM BAL)<br>VR324<br>(NL LIM LEV) |
| <ol style="list-style-type: none"> <li>1. Playback 100% BOW TIE signal and expand it.</li> <li>2. Adjust VR324 so that V1 becomes<br/>NTSC : <math>340 \pm 5\text{mVp-p}</math><br/>PAL : <math>360 \pm 5\text{mVp-p}</math></li> <li>3. SCOPE SETTING : DC Mode</li> <li>4. Adjust VR323 so that the level V2 equals the level V3 (50 : 50%).</li> </ol> |      |                                   | <p>TP310</p>  <p> <math>\odot</math> VR324 : (NTSC) <math>V1 = 340 \pm 5\text{mVp-p}</math><br/> (PAL) <math>V1 = 360 \pm 5\text{mVp-p}</math><br/> <math>\odot</math> VR323 : <math>V2 = V3</math> </p> |              |  |

**7-16-N. C NON-LINEAR DE-EMPHASIS LEVEL ADJUSTMENT**  
 (FOR AU-65/AU-63/AU-62 NTSC) ( W3: MOD & DEMOD )

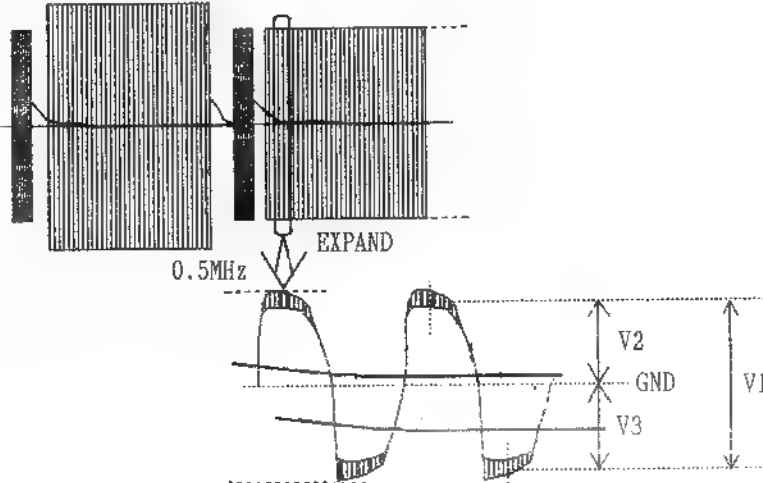
| TEST POINT   | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT        |
|--|------|--------------------------------|---|--------------|-------------------|
| TP706  | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE  | -----        | VR719<br>(NL LEV) |
| 1. Adjust VR719 so that the Pr signal level at TP706 is $1.68 \pm 0.02V_{p-p}$ . |      |                                | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">TP706</div> <div style="margin-right: 20px;">○ VR719</div>  </div> <p style="text-align: center;"><math>A = 1.68 \pm 0.02V_{p-p}</math></p> |              |                   |

**7-16-P. C NON-LINEAR DE-EMPHASIS LEVEL ADJUSTMENT**  
 (FOR AU-65/AU-63/AU-62 PAL) ( W3: MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT        |
|---|------|--------------------------------|---|--------------|-------------------|
| TP706   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE  | -----        | VR719<br>(NL LEV) |
| 1. Adjust VR719 so that the Pr signal level at TP706 is $1.1 \pm 0.02V_{p-p}$ . |      |                                | <div style="display: flex; align-items: center;">  </div> <p style="text-align: center;"><math>A = 1.1 \pm 0.02V_{p-p}</math></p> |              |                   |

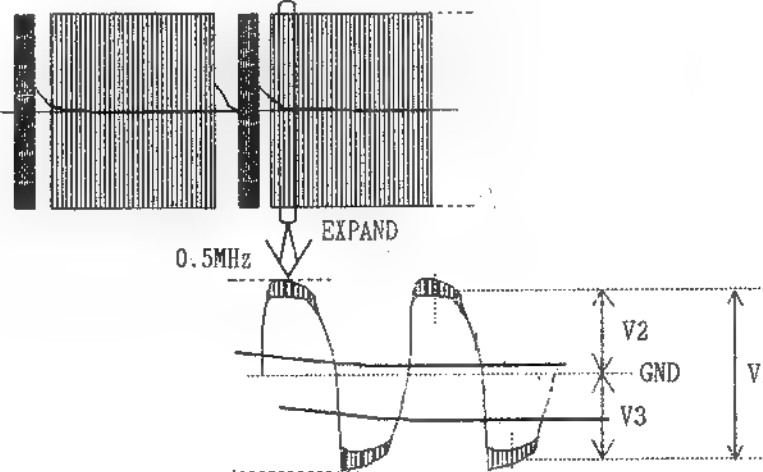
**7-17-N. C NL DE-EMPHASIS LIMITER LEVEL ADJUSTMENT**  
(FOR AU-62/AU-63 NTSC)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                            | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                  |
|--|------|--------------------------------------|---|--------------|---|
| TP707  | PLAY | ALIGNMENT<br>TAPE<br>100%<br>BOW TIE | OSCILLOSCOPE  | -----        | VR720<br>(LIM BAL)<br>VR721<br>(NL LIM LEV) |
| <ol style="list-style-type: none"> <li>1. Play back the 100% BOW TIE portion and expand Pb portion.</li> <li>2. Adjust VR721 so that the level V1 becomes <math>340\text{mV} \pm 5\text{mVp-p}</math>.</li> <li>3. SCOPE SETTING : DC mode.</li> <li>4. Adjust VR720 so that the level V2 equals the level V3 (50 : 50%).</li> </ol> |      |                                      | <p>TP707 <math>\oslash</math> VR720, VR721</p>  <p><math>\oslash</math> VR721 : <math>V1 = 340 \pm 5\text{mVp-p}</math><br/> <math>\oslash</math> VR720 : <math>V2 = V3</math></p> |              |   |

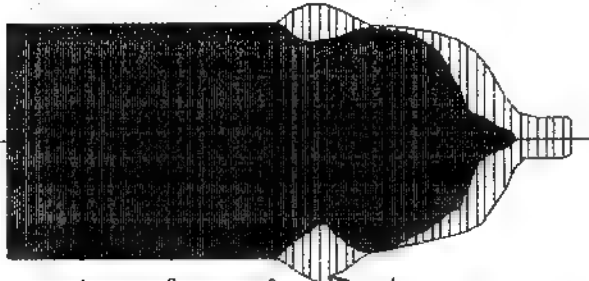
**7-17-P. C NL DE-EMPHASIS LIMITER LEVEL ADJUSTMENT**  
(FOR AU-62/AU-63 PAL)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                            | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                  |
|--|------|--------------------------------------|--|--------------|---|
| TP707  | PLAY | ALIGNMENT<br>TAPE<br>100%<br>BOW TIE | OSCILLOSCOPE   | -----        | VR720<br>(LIM BAL)<br>VR721<br>(NL LIM LEV) |
| <ol style="list-style-type: none"> <li>1. Play back the 100% BOW TIE portion and expand Pb portion.</li> <li>2. Adjust VR721 so that the level V1 becomes <math>400\text{mV} \pm 5\text{mVp-p}</math>.</li> <li>3. SCOPE SETTING : DC mode.</li> <li>4. Adjust VR720 so that the level V2 equals the level V3 (50 : 50%).</li> </ol> |      |                                      | <p>TP707 <math>\oslash</math> VR720, VR721</p>  <p><math>\oslash</math> VR721 : <math>V1 = 400 \pm 5\text{mVp-p}</math><br/> <math>\oslash</math> VR720 : <math>V2 = V3</math></p> |              |   |

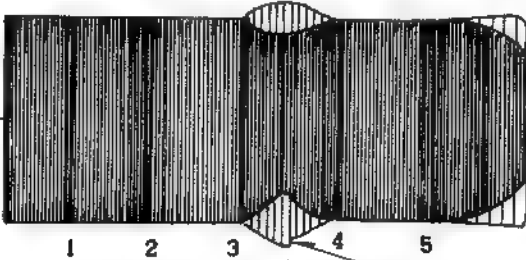
**7-18-N. Y DE-MODULATOR BALANCE ADJUSTMENT**  
(FOR AU-65/63/62 NTSC)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                 |
|--|------|----------------------------|--|--------------|--|
| COMPONENT<br>Y OUT<br>F28-AB<br>TERMINAL<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | WAVE FORM<br>MONITOR<br>(TEK 1750)   | -----        | VR318<br>(LIM BAL)<br>VR319<br>(DEMOM BAL) |
| <p>&lt;FOR AU-63/62&gt;</p> <p>1. SCOPE CH1 : COMPONENT Y OUT<br/>SCOPE CH2 : F28-AB TERMINAL (Trigger)</p> <p>2. Adjust VR318 and VR319 so that the moire is minimized at lower part of 3 ~ 4 MHz.</p> <p>&lt;FOR AU-65&gt;</p> <p>1. Supply a Component 60% H. SWEEP signal to Component Input.</p> <p>2. MODE : E-E</p> <p>3. SCOPE CH1 : COMPONENT Y OUT<br/>SCOPE CH2 : F28-AB (Trigger)</p> <p>4. Adjust VR318 and VR319 so that the moire is minimized at lower part of 3 ~ 4MHz.</p> |      |                            | <p>COMPONENT Y OUT</p> <p>⊗ VR318<br/>⊗ VR319</p>  <p>MOIRE : MINIMUM</p> |              |  |

**7-18-P. Y DE-MODULATOR BALANCE ADJUSTMENT**  
(FOR AU-65/63/62 PAL)

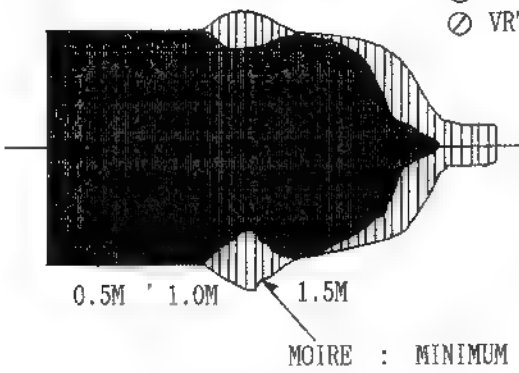
( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                 |
|--|------|----------------------------|---|--------------|--|
| COMPONENT<br>Y OUT<br>F28-AB<br>TERMINAL<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | WAVE FORM<br>MONITOR<br>(TEK 1750)  | -----        | VR318<br>(LIM BAL)<br>VR319<br>(DEMOM BAL) |
| <p>&lt;FOR AU-63/62&gt;</p> <p>1. SCOPE CH1 : COMPONENT Y OUT<br/>SCOPE CH2 : F28-AB TERMINAL (Trigger)</p> <p>2. Adjust VR318 and VR319 so that the moire is minimized at lower part of 3 ~ 4 MHz.</p> <p>&lt;FOR AU-65&gt;</p> <p>1. Supply a Component 60% H. SWEEP signal to Component Input.</p> <p>2. MODE : E-E</p> <p>3. SCOPE CH1 : COMPONENT Y OUT<br/>SCOPE CH2 : F28-AB (Trigger)</p> <p>4. Adjust VR318 and VR319 so that the moire is minimized at lower part of 3 ~ 4MHz.</p> |      |                            | <p>COMPONENT Y OUT</p> <p>⊗ VR318<br/>⊗ VR319</p>  <p>MOIRE : MINIMUM</p> |              |  |



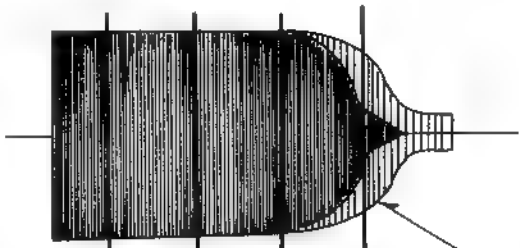
# 7-19-N. C DE-MODULATOR BALANCE ADJUSTMENT (FOR AU-65/63/62 NTSC)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                 |
|---|------|----------------------------|---|--------------|--|
| COMPONENT<br>Pb OUT<br>F33-AB<br>TERMINAL<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | WAVE FORM<br>MONITOR<br>(TEK 1750)  | -----        | VR715<br>(LIM BAL)<br>VR716<br>(DEMOM BAL) |
| <p>&lt;FOR AU-63/62&gt;</p> <p>1. SCOPE CH1 : COMPONENT Pb OUT<br/>SCOPE CH2 : F33-AB TERMINAL<br/>(Trigger)</p> <p>2. Adjust VR715 and VR716 so that the moire is minimized at lower part of 1 ~ 1.5MHz.</p> <p>&lt;FOR AU-65&gt;</p> <p>1. Supply a Component 60% H. SWEEP signal to Component Input.</p> <p>2. MODE : E-E</p> <p>3. SCOPE CH1 : COMPONENT Pb OUT<br/>SCOPE CH2 : F33-AB (Trigger)</p> <p>4. Adjust VR715 and VR716 so that the moire is minimized at lower part of 1 ~ 1.5MHz.</p> |      |                            | <p>COMPONENT<br/>Pb OUT</p>  <p>VR715<br/>VR716</p> <p>0.5M 1.0M 1.5M</p> <p>MOIRE : MINIMUM</p> |              |  |

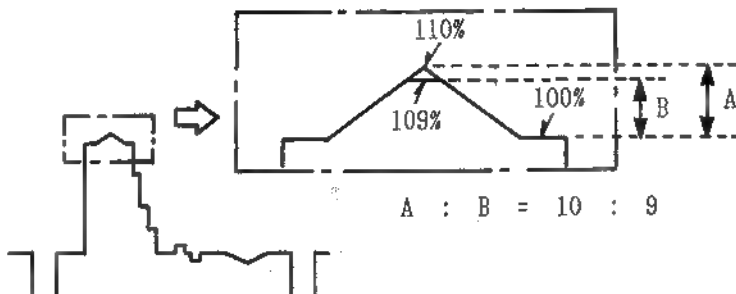
# 7-19-P. C DE-MODULATOR BALANCE ADJUSTMENT (FOR AU-65/63/62 PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                 |
|---|------|----------------------------|---|--------------|--|
| COMPONENT<br>Pb OUT<br>F33-AB<br>TERMINAL<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | WAVE FORM<br>MONITOR<br>(TEK 1750)  | -----        | VR715<br>(LIM BAL)<br>VR716<br>(DEMOM BAL) |
| <p>&lt;FOR AU-63/62&gt;</p> <p>1. SCOPE CH1 : COMPONENT Pb OUT<br/>SCOPE CH2 : F33-AB TERMINAL<br/>(Trigger)</p> <p>2. Adjust VR715 and VR716 so that the moire is minimized at lower part of 1 ~ 1.5MHz.</p> <p>&lt;FOR AU-65&gt;</p> <p>1. Supply a Component 60% H. SWEEP signal to Component Input.</p> <p>2. MODE : E-E</p> <p>3. SCOPE CH1 : COMPONENT Pb OUT<br/>SCOPE CH2 : F33-AB (Trigger)</p> <p>4. Adjust VR715 and VR716 so that the moire is minimized at lower part of 1 ~ 1.5MHz.</p> |      |                            | <p>COMPONENT<br/>Pb OUT</p>  <p>VR715<br/>VR716</p> <p>0.5 1.0 1.5 2.0</p> <p>MOIRE : MINIMUM</p> |              |  |

7-20. VIDEO CLIP ADJUSTMENT  
(FOR AU-65 NTSC & PAL)

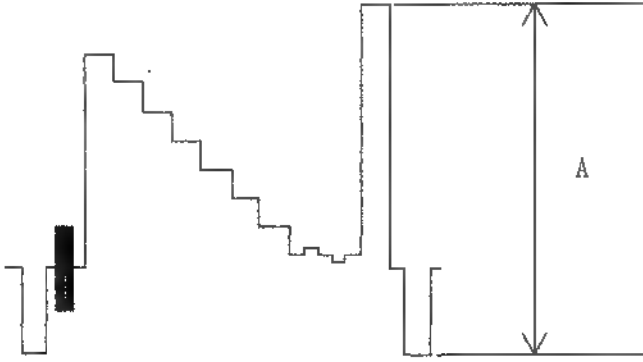
( W3: MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL  | ADJUSTMENT   |
|---|----------------|-----------|--|---|--------------|
| TP1   | E-E<br>(EJECT) | -----     | WFM<br>OR<br>OSCILLOSCOPE  | COMPONENT<br>COLOR BAR<br>LEVEL<br>REFERENCE SIGNAL | VR3 (Y CLIP) |
| <p>Step 1.</p> <p>1. SCOPE : TP1</p> <p>2. Adjust VR3 so that level B as shown in figure.</p> <p>Note:<br/>Measure from PEDESTAL LEVEL TO PEAK<br/>WHITE LEVEL.</p> |                |           | <p>TP1 <math>\odot</math> VR3</p>  <p>The diagram illustrates the adjustment of VR3 for video clip. It shows a video signal waveform on the left and a corresponding level reference signal on the right. The level reference signal is a trapezoidal shape with a peak labeled 110%, a level labeled 109%, and a level labeled 100%. The diagram also shows a dashed box around the peak and a dashed line indicating the level B. The ratio A : B = 10 : 9 is indicated.</p> |   |              |

7-21-N. Y NON-LINEAR PRE-EMPHASIS LEVEL ADJUSTMENT  
(FOR AU-65 NTSC) ( W3 MOD & DEMOD )

| TEST POINT | MODE           | TAPE USED | M.EQ.        | INPUT SIGNAL               | ADJUSTMENT      |
|------------|----------------|-----------|--------------|----------------------------|-----------------|
| TP1        | E-E<br>(EJECT) | -----     | OSCILLOSCOPE | COMPONENT<br>75% COLOR BAR | VR1 (Y NLE LEV) |

TP1  $\oslash$  VR1

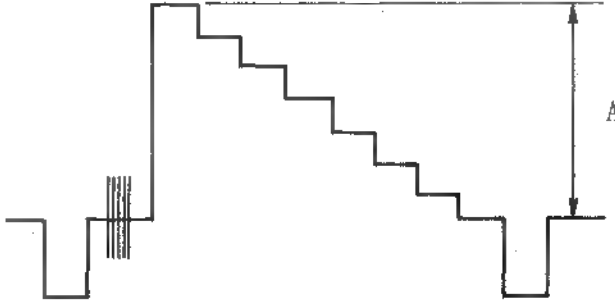


$A = 2.45 \pm 0.03V_{p-p}$

7-21-P. Y NON-LINEAR PRE-EMPHASIS LEVEL ADJUSTMENT  
(FOR AU-65 PAL) ( W3 MOD & DEMOD )

| TEST POINT | MODE           | TAPE USED | M.EQ.        | INPUT SIGNAL           | ADJUSTMENT      |
|------------|----------------|-----------|--------------|------------------------|-----------------|
| TP 4       | E-E<br>(EJECT) | -----     | OSCILLOSCOPE | COMPONENT<br>COLOR BAR | VR1 (Y NLE LEV) |

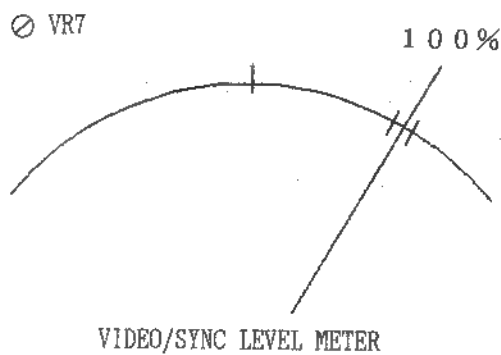
TP4  $\oslash$  VR1



$A = 1.1 \pm 0.02V_{p-p}$

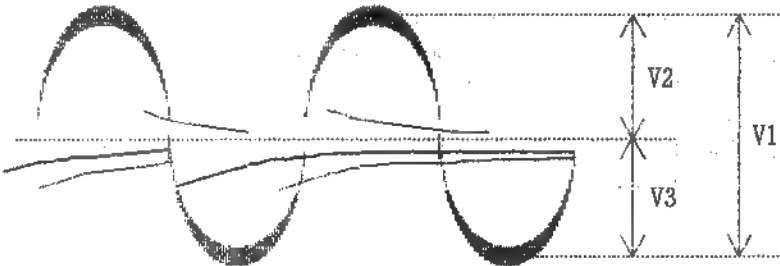
# 7-22. VIDEO/SYNC METER ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W3: MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT     |
|---|------|--------------------------------|---|--------------|----------------|
| Video Level Meter<br>(on Front Panel)   | PLAY | COMPONENT<br>100%<br>COLOR BAR | -----   | -----        | VR7 (V/S LEV.) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. SW1 (on W3) : VIDEO POSITION</li> <li>2. Adjust VR7 so that the meter indicates 100% as shown in figure.</li> <li>3. SW1 (on W3) : SYNC POSITION</li> <li>4. Confirm that the meter indicates <math>100 \pm 10\%</math>.</li> <li>5. SW1 (on W3) : VIDEO POSITION</li> </ol> |      |                                |  |              |                |

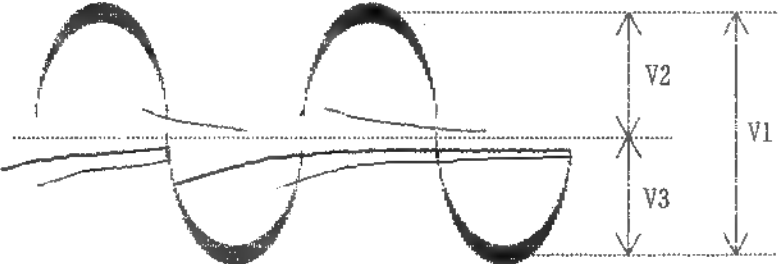
**7-23-N. Y NL EMPHASIS LIMITER LEVEL ADJUSTMENT**  
(FOR AU-65 NTSC)

( W3: MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL              | ADJUSTMENT                              |
|--|----------------|-----------|---|---------------------------|---|
| TP3  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>100% BOW TIE | VR5<br>(LIM BAL)<br>VR4<br>(NL LIM LEV) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>SCOPE : TP3</li> <li>Adjust VR4 so that the level V1 becomes <math>340\text{mV} \pm 5\text{mVp-p}</math>.</li> <li>SCOPE SETTING : DC mode</li> <li>Adjust VR5 so that the level V2 equals the level V3 (50 - 50%).</li> </ol> |                |           | <p>TP3</p>  <p> <math>\varnothing</math> VR4 : <math>V1 = 340\text{mV} \pm 5\text{mVp-p}</math><br/> <math>\varnothing</math> VR5 : <math>V2 = V3</math> </p> |                           |   |

**7-23-P. Y NL EMPHASIS LIMITER LEVEL ADJUSTMENT**  
(FOR AU-65 PAL)

( W3: MOD & DEMOD )

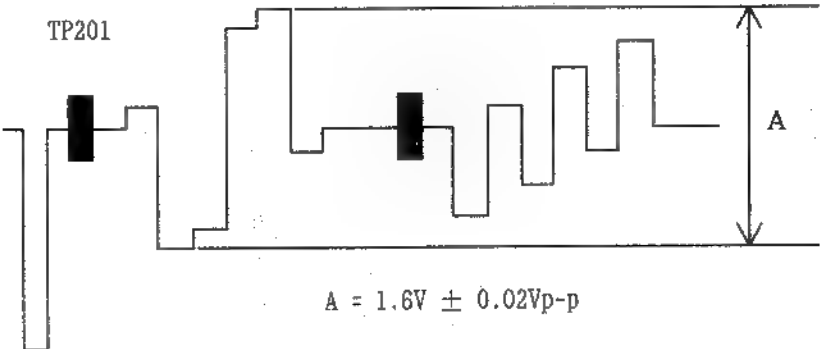
| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL              | ADJUSTMENT                              |
|--|----------------|-----------|---|---------------------------|---|
| TP3  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>100% BOW TIE | VR5<br>(LIM BAL)<br>VR4<br>(NL LIM LEV) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>SCOPE : TP3</li> <li>Adjust VR4 so that the level V1 becomes <math>360\text{mV} \pm 5\text{mVp-p}</math>.</li> <li>SCOPE SETTING : DC mode</li> <li>Adjust VR5 so that the level V2 equals the level V3 (50 - 50%).</li> </ol> |                |           | <p>TP3</p>  <p> <math>\varnothing</math> VR4 : <math>V1 = 360\text{mV} \pm 5\text{mVp-p}</math><br/> <math>\varnothing</math> VR5 : <math>V2 = V3</math> </p> |                           |   |

7-24-N. C NON-LINEAR PRE-EMPHASIS LEVEL ADJUSTMENT  
(FOR AU-65 NTSC) ( W3 MOD & DEMOD )

| TEST POINT | MODE           | TAPE USED | M.EQ.        | INPUT SIGNAL               | ADJUSTMENT       |
|------------|----------------|-----------|--------------|----------------------------|------------------|
| TP201      | E-E<br>(EJECT) | -----     | OSCILLOSCOPE | COMPONENT<br>75% COLOR BAR | VR201 (C NL LEV) |

TP201



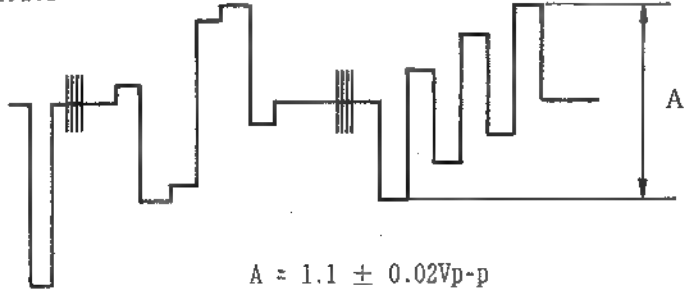
$A = 1.6V \pm 0.02V_{p-p}$

7-24-P. C NON-LINEAR PRE-EMPHASIS LEVEL ADJUSTMENT  
(FOR AU-65 PAL) ( W3 MOD & DEMOD )

| TEST POINT | MODE           | TAPE USED | M.EQ.        | INPUT SIGNAL                | ADJUSTMENT       |
|------------|----------------|-----------|--------------|-----------------------------|------------------|
| TP202      | E-E<br>(EJECT) | -----     | OSCILLOSCOPE | COMPONENT<br>100% COLOR BAR | VR201 (C NL LEV) |

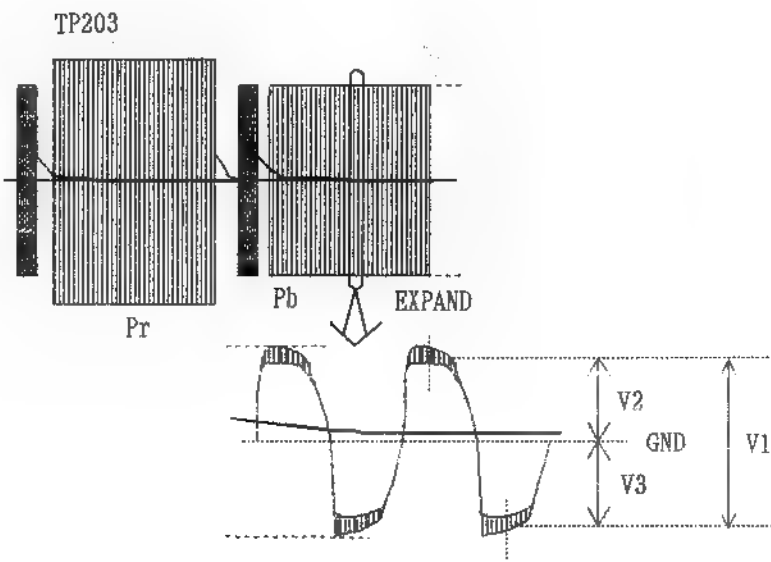
TP201



$A = 1.1 \pm 0.02V_{p-p}$

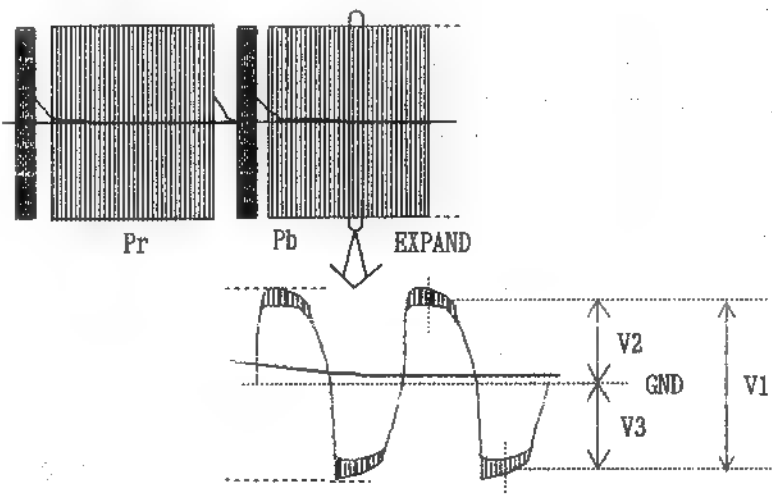
7-25-N. C NON-LINEAR LIMITER ADJUSTMENT  
(FOR AU-65 NTSC)

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL              | ADJUSTMENT                                  |
|---|----------------|-----------|--|---------------------------|---|
| TP203   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100% BOW TIE | VR202<br>(LIM BAL)<br>VR203<br>(NL LIM LEV) |
| <p>1. SCOPE : TP203</p> <p>2. Observe the Pb signal of CTCM signal and expand the Time/Div of Pb signal.</p> <p>3. Adjust VR203 so that the level V1 becomes <math>340\text{mV} \pm 5\text{mVp-p}</math>.</p> <p>4. SCOPE SETTING : DC mode</p> <p>5. Adjust VR202 so that the level V2 equals the level V3 (50 : 50%).</p> |                |           | <p>TP203</p>  <p>⊙ VR203 : <math>V1 = 340\text{mV} \pm 5\text{mVp-p}</math></p> <p>⊙ VR202 : <math>V2 = V3</math></p> |                           |   |

# 7-25-P. C NON-LINEAR LIMITER ADJUSTMENT (FOR AU-65 PAL)

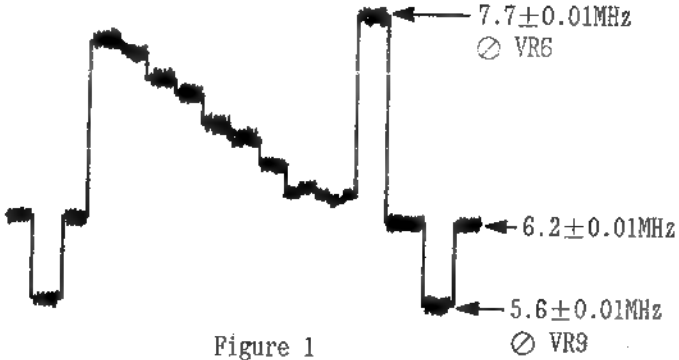
( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL              | ADJUSTMENT                                  |
|---|----------------|-----------|---|---------------------------|---|
| TP203   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>100% BOW TIE | VR202<br>(LIM BAL)<br>VR203<br>(NL LIM LEV) |
| <ol style="list-style-type: none"> <li>SCOPE : TP203</li> <li>Observe the CTCM signal and expand it.</li> <li>Adjust VR203 so that the level V1 becomes <math>400\text{mV} \pm 5\text{mVp-p}</math>.</li> <li>SCOPE SETTING : DC mode</li> <li>Adjust VR202 so that the level V2 equals the level V3 (50 : 50%).</li> </ol> |                |           | <p>TP203</p>  <p>Pr Pb EXPAND</p> <p>V2<br/>GND<br/>V3</p> <p> <math>\bigcirc</math> VR203 : <math>V1 = 400\text{mV} \pm 5\text{mVp-p}</math><br/> <math>\bigcirc</math> VR202 : <math>V2 = V3</math> </p> |                           |   |



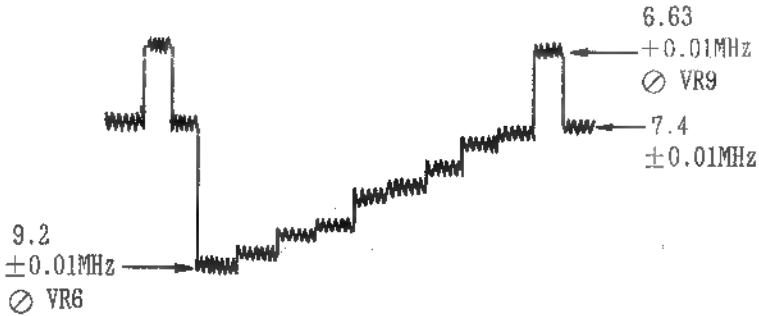
7-26-N. Y FM DEVIATION ADJUSTMENT  
(FOR AU-65 NTSC)

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL   | ADJUSTMENT   |
|---|----------------|-----------|--|--|--|
| TP316<br>TP309  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>75% COLOR BAR   | VR8 (DARK CLIP)<br>VR10 (WHITE CLIP)<br>VR6 (Y DEV.)<br>VR9 (Y SYNC TIP FREQ.) |
| Step 1.<br>MACHINE CONDITION  |                |           | VR8 :<br>VR10 :  | Fully Counterclockwise (To release clip)<br>Fully Counterclockwise (To release clip) |  |
| Step 2.<br><br>1. Inject Sinewave Signal to TP316<br>2. Set Sinewave Generator Output<br>Frequency Setting To :                               |                |           | 5.6 MHz $\pm$ 0.01 MHz ( 0.2 ~ 0.4Vp-p )   |  |  |
| Step 3.<br><br>1. Connect scope to TP309<br>2. Adjust VR9 so that frequency beat noise is nullified at sync tip portion as shown in figure 1. |                |           | <p>TP309</p>  <p>Figure 1</p> |  |  |
| Step 4. <SYNC TIP ADJ.><br><br>Change Sinewave Generator Output<br>Frequency Setting To :   |                |           | 7.7 MHz $\pm$ 0.01 MHz ( 0.2 ~ 0.4Vp-p )   |  |  |
| Step 5.<br><br>1. Adjust VR6 so that frequency beat noise is nullified at white peak portion as shown in figure 1.                            |                |           |  |  |  |
| Step 6.<br><br>1. After this adjustment, the video Clip, White/Dark Clip and Y Modulator Balance Adjustments are required.                    |                |           | Go to SECTION 5-24   |  |  |

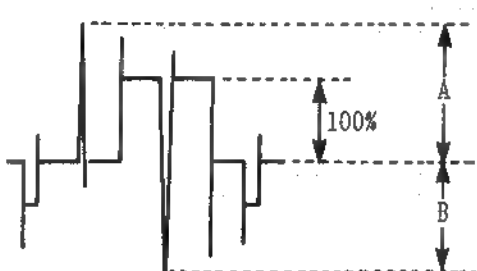
# 7-26-P. Y FM DEVIATION ADJUSTMENT (FOR AU-65 PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL   | ADJUSTMENT   |
|---|----------------|-----------|--|--|--|
| TP316<br>TP309  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>COLOR BAR   | VR8 (DARK CLIP)<br>VR10 (WHITE CLIP)<br>VR6 (Y DEV.)<br>VR9 (Y SYNC TIP FREQ.) |
| Step 1.<br>MACHINE CONDITION  |                |           | VR8 :<br>VR10 :  | Fully Counterclockwise (To release clip)<br>Fully Counterclockwise (To release clip) |  |
| Step 2.<br><br>1. Inject Sinewave Signal to TP316<br>2. Set Sinewave Generator Output<br>Frequency Setting To :                               |                |           | 6.63 MHz $\pm$ 0.01 MHz ( 0.2 ~ 0.4Vp-p )  |  |  |
| Step 3.<br><br>1. Connect scope to TP309<br>2. Adjust VR9 so that frequency beat noise is nullified at sync tip portion as shown in figure 1. |                |           | <p>TP309</p>  <p>Figure 1</p> |  |  |
| Step 4. <SYNC TIP ADJ.><br><br>Change Sinewave Generator Output<br>Frequency Setting To :   |                |           | 9.2 MHz $\pm$ 0.01 MHz ( 0.2 ~ 0.4Vp-p )   |  |  |
| Step 5.<br><br>1. Adjust VR6 so that frequency beat noise is nullified at white peak portion as shown in figure 1.                            |                |           |  |  |  |
| Step 6.<br><br>1. After this adjustment, the video Clip, White/Dark Clip and Y Modulator Balance Adjustments are required.                    |                |           | Go to SECTION 5-24   |  |  |

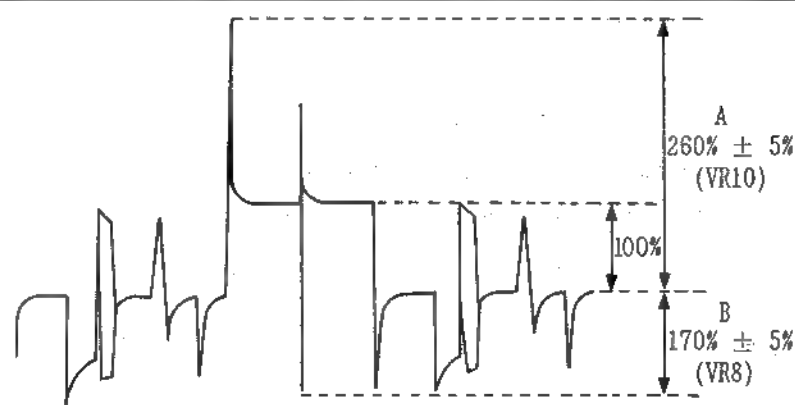
7-27-N. Y WHITE & DARK CLIP ADJUSTMENT  
(FOR AU-65 NTSC)

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                        | ADJUSTMENT                            |
|---|----------------|-----------|--|-------------------------------------|---------------------------------------|
| TP 5  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>Sin2 2T<br>PULSE & BAR | VR10 (WHITE CLIP)<br>VR 8 (DARK CLIP) |
| Step 1.<br><br>1. SCOPE : TP 5<br><br>2. Adjust VR10 so that the 2T Pulse (Positive spike) level (A) becomes $280\% \pm 5\%$ as shown in figure.<br><br>3. Adjust VR8 so that the 2T Pulse (Negative spike) level (B) becomes $180\% \pm 5\%$ as shown in figure. |                |           | TP 5<br><br> |                                     |                                       |

7-27-P. Y WHITE & DARK CLIP ADJUSTMENT  
(FOR AU-65 PAL)

( W3 MOD & DEMOD )

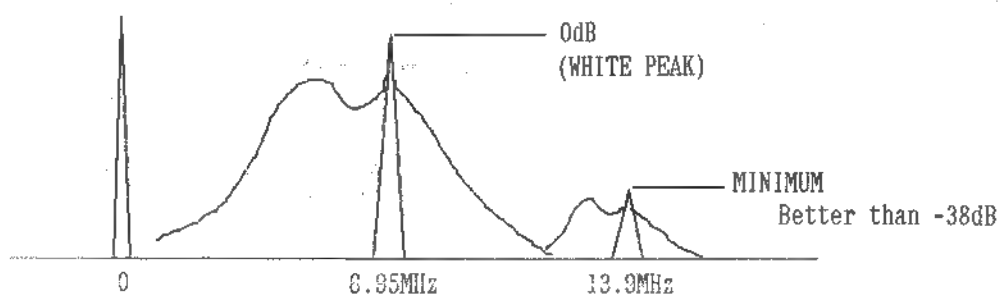
| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                        | ADJUSTMENT                            |
|---|----------------|-----------|--|-------------------------------------|---------------------------------------|
| TP 5  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>Sin2 2T<br>PULSE & BAR | VR10 (WHITE CLIP)<br>VR 8 (DARK CLIP) |
| Step 1.<br><br>1. SCOPE : TP 5<br><br>2. Adjust VR10 so that the 2T Pulse (Positive spike) level (A) becomes $260\% \pm 5\%$ as shown in figure.<br><br>3. Adjust VR8 so that the 2T Pulse (Negative spike) level (B) becomes $170\% \pm 5\%$ as shown in figure. |                |           |  |                                     |                                       |

**7-28-N(A) . Y MODULATOR BALANCE ADJUSTMENT  
(BY USING SPECTRUM ANALYZER)  
(FOR AU-65 NTSC)**

( W3 MOD & DEMOD )

| TEST POINT | MODE           | TAPE USED | M.EQ.                | INPUT SIGNAL              | ADJUSTMENT       |
|------------|----------------|-----------|----------------------|---------------------------|------------------|
| TP7        | E-E<br>(EJECT) | -----     | SPECTRUM<br>ANALYZER | COMPONENT<br>50%<br>WHITE | VR11 (Y MOD BAL) |

1. Adjust VR11 so that the second harmonic (13.9 MHz) carrier level is minimized  
(Better than -38dB)



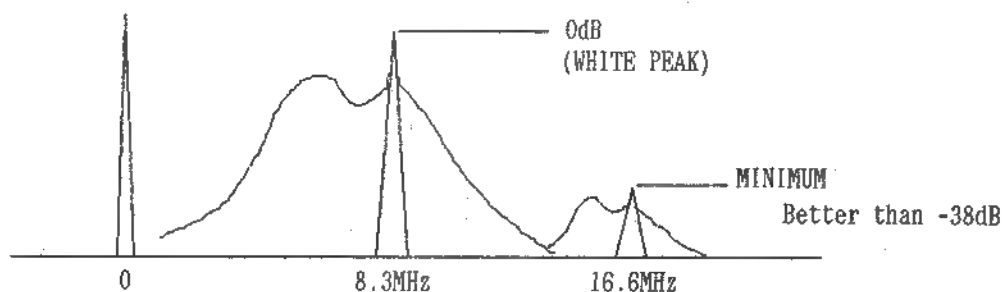
⊙ VR11 : 13.9MHz...MINIMUM

**7-28-P(A) . Y MODULATOR BALANCE ADJUSTMENT  
(BY USING SPECTRUM ANALYZER)  
(FOR AU-65 PAL)**

( W3 MOD & DEMOD )

| TEST POINT | MODE           | TAPE USED | M.EQ.                | INPUT SIGNAL              | ADJUSTMENT       |
|------------|----------------|-----------|----------------------|---------------------------|------------------|
| TP7        | E-E<br>(EJECT) | -----     | SPECTRUM<br>ANALYZER | COMPONENT<br>50%<br>WHITE | VR11 (Y MOD BAL) |

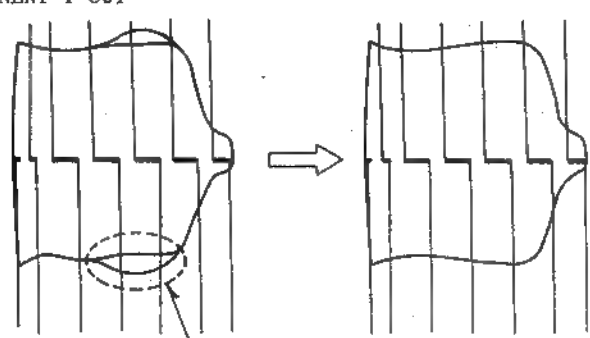
1. Adjust VR11 so that the second harmonic (16.6 MHz) carrier level is minimized  
(Better than -38dB)



⊙ VR11 : 16.6MHz...MINIMUM

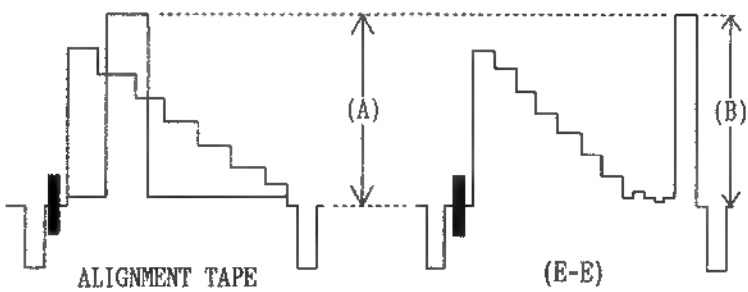
**7-28(B) . Y MODULATOR BALANCE ADJUSTMENT  
(BY USING OSCILLOSCOPE)  
(FOR AU-65 NTSC & PAL)**

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                 | ADJUSTMENT       |
|--|----------------|-----------|--|------------------------------|------------------|
| COMPONENT<br>Y OUT   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>60%<br>H. SWEEP | VR11 (Y MOD BAL) |
| <p>Step 1.</p> <p>1. SCOPE : COMPONENT Y OUT</p> <p>2. Adjust VR11 so the "A" portion High Frequency moire is minimized.</p> |                |           | <p>COMPONENT Y OUT</p>  <p>NO GOOD      "A" Portion      GOOD</p> |                              |                  |

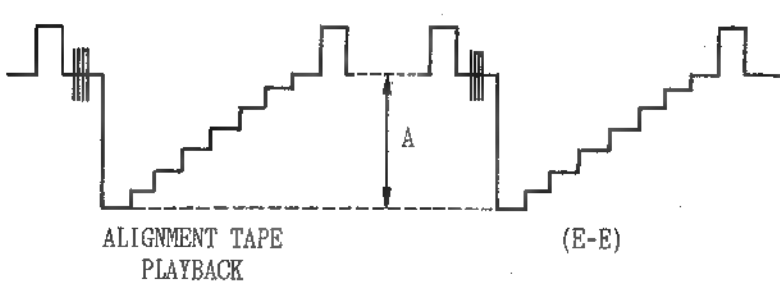
# 7-29-N. Y DEVIATION CONFIRMATION (FOR AU-65 NTSC)

( W3 MOD & DEMOD )

| TEST POINT  | MODE              | TAPE USED                             | M.EQ.   | INPUT SIGNAL                  | ADJUSTMENT  |
|---|-------------------|---------------------------------------|---|-------------------------------|-------------|
| TP309   | PLAY<br>↓<br>STOP | ALIGNMENT<br>TAPE<br>75%<br>COLOR BAR | OSCILLOSCOPE  | COMPONENT<br>75%<br>COLOR BAR | VR6 (Y DEV) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>SCOPE : TP309</li> <li>Play back the color bar portion of the Alignment Tape.</li> <li>Measure the level A.</li> <li>Place the unit in the E-E mode. (STOP)</li> <li>Compare the level A of Alignment Tape Play back signal and the level B of E-E color bar.</li> <li>If it is not same level *, adjust VR6 so that the E-E output level (B) becomes same level of Alignment Tape Play back color bar level (A).</li> </ol> <p>*Note:<br/>Make sure the Y WHITE &amp; DARK CLIP are readjusted (7-27-N).</p> |                   |                                       | <p>TP309</p>  <p>ALIGNMENT TAPE PLAYBACK SIGNAL LEVEL (A)<br/>= E-E OUTPUT SIGNAL LEVEL (B)</p> |                               |             |

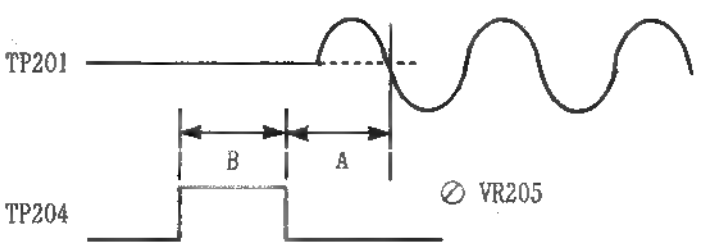
# 7-29-P. Y DEVIATION CONFIRMATION (FOR AU-65 PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE              | TAPE USED                      | M.EQ.   | INPUT SIGNAL                   | ADJUSTMENT  |
|---|-------------------|--------------------------------|---|--------------------------------|-------------|
| TP309   | PLAY<br>↓<br>STOP | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOR BAR | VR6 (Y DEV) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>SCOPE : TP309</li> <li>Play back the color bar portion of the Alignment Tape.</li> <li>Measure the level A.</li> <li>Place the unit in the E-E mode. (STOP)</li> <li>Compare the level of Alignment Tape Play back signal and the level of E-E color bar.</li> <li>If it is not same level *, adjust VR6 so that the E-E output level becomes same level of Alignment Tape Play back color bar level.</li> </ol> <p>*Note:<br/>Make sure the Y WHITE &amp; DARK CLIP are readjusted (7-27-P).</p> |                   |                                | <p>TP309</p>  <p>ALIGNMENT TAPE PLAYBACK SIGNAL LEVEL (A)<br/>= E-E OUTPUT SIGNAL LEVEL (B)</p> |                                |             |


# 7-30. C CLAMP PULSE POSITION ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                                       | ADJUSTMENT          |
|--|----------------|-----------|---|--|---------------------|
| TP201<br>TP204   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>75% (NTSC)<br>100% (PAL)<br>COLOR BAR | VR205 (C CLAMP POS) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>  |                |           | <p>1. INPUT SELECT : COMPONENT<br/>(on Pull Out Drawer)</p> <p>2. YC/COMPONENT SELECT : COMPONENT<br/>(on Front Sub Panel)</p> <p>3. SW201 : NOT TEST POSITION</p>                                    |  |                     |
| <p>Step 2.</p> <p>1. SCOPE CH1 : TP201<br/>SCOPE CH2 : TP204</p> <p>2. Adjust VR205 so that the period (A) is<br/><math>0.7 \pm 0.1 \mu\text{sec.}</math></p> <p>3. Confirm that the pulse width (B) is<br/><math>1.2 \pm 0.2 \mu\text{sec.}</math><br/>color bar level (A).</p> |                |           |  <p><math>A = 0.7 \pm 0.1 \mu\text{S (ADJ)}</math><br/><math>B = 1.2 \pm 0.2 \mu\text{S (CONFIRMATION)}</math></p> |  |                     |

7-31-N. C FM DEVIATION ADJUSTMENT  
(FOR AU-65 NTSC)

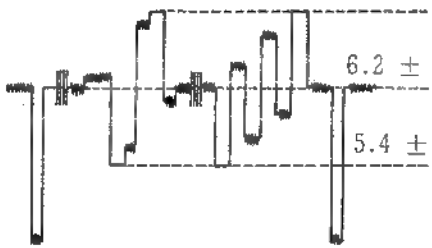
( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL        | ADJUSTMENT  |
|---|----------------|-----------|--|---------------------|---|
| TP711<br>TP706  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | Y/CTCM<br>COLOR BAR | VR207 (DARK CLIP)<br>VR208 (WHITE CLIP)<br>VR204 (C DEV.)<br>VR206 (C-BLK FREQ) |
| Step 1.<br>MACHINE CONDITION  |                |           | VR207 : Fully Counterclockwise (To release clip)<br>VR208 : Fully Counterclockwise (To release clip)   |                     |   |
| Step 2.<br><br>1. Sinewave Signal to TP711.<br>2. Set Sinewave Generator Out put<br>Frequency Setting To :  |                |           | 5.5 MHz $\pm$ 0.01 MHz (0.2 ~ 0.4 Vp-p)  |                     |   |
| Step 3.<br><br>1. Connect scope to TP706<br>2. Adjust VR206 so that frequency beat<br>noise is nullified at blanking portion<br>as shown in figure.   |                |           | TP706 <div style="text-align: right;">6.2 <math>\pm</math> 0.01MHz <math>\oslash</math> VR204</div>  <div style="text-align: right;">5.5 <math>\pm</math> 0.01MHz <math>\oslash</math> VR206</div> <div style="text-align: right;">4.8 <math>\pm</math> 0.01MHz</div> |                     |   |
| Step 4.<br><br>Change Sinewave Generator Output<br>Frequency Setting To :   |                |           | 6.2MHz $\pm$ 0.01MHz (0.2 ~ 0.4Vp-p)   |                     |   |
| Step 5.<br><br>1. Adjust VR204 so that frequency beat<br>noise is nullified at red portion of Pr<br>signal as shown in figure 1.  |                |           |  |                     |   |
| Step 6.<br><br>Then change the frequency of the sinewave<br>generator to 4.8MHz ( $\pm$ 0.01KHz) and<br>confirm that the beat does not occur at<br>cyan portion of Pr signal.<br>If it is not, repeat from steps 5 and 6. |                |           |  |                     |   |
| Note:<br>After this adjustment, the C WHITE/DARK<br>CLIP adjustments are required.  |                |           | Go to SECTION 5-29   |                     |   |



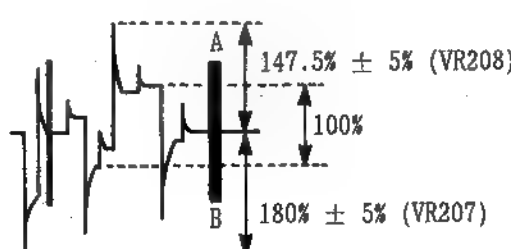
# 7-31-P. C FM DEVIATION ADJUSTMENT (FOR AU-65 PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL        | ADJUSTMENT  |
|---|----------------|-----------|--|---------------------|---|
| TP711<br>TP706  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | Y/CTCM<br>COLOR BAR | VR207 (DARK CLIP)<br>VR208 (WHITE CLIP)<br>VR204 (C DEV.)<br>VR206 (C BLK FREQ) |
| Step 1.<br>MACHINE CONDITION  |                |           | VR207 : Fully Counterclockwise (To release clip)<br>VR208 : Fully Counterclockwise (To release clip) |                     |   |
| Step 2.<br><br>1. Sinewave Signal to TP711.<br>2. Set Sinewave Generator Out put<br>Frequency Setting To :  |                |           | 6.2 MHz $\pm$ 0.01 MHz (0.2 ~ 0.4 Vp-p)  |                     |   |
| Step 3.<br><br>1. Connect scope to TP706<br>2. Adjust VR206 so that frequency beat<br>noise is nullified at blanking portion<br>as shown in figure.   |                |           | TP706             |                     |   |
| Step 4.<br><br>Change Sinewave Generator Output<br>Frequency Setting To :   |                |           | 7.0MHz $\pm$ 0.01MHz (0.2 ~ 0.4Vp-p)   |                     |   |
| Step 5.<br><br>1. Adjust VR204 so that frequency beat<br>noise is nullified at red portion of Pr<br>signal as shown in figure 1.  |                |           |  |                     |   |
| Step 6.<br><br>Then change the frequency of the sinewave<br>generator to 4.8MHz ( $\pm$ 0.01KHz) and<br>confirm that the beat does not occur at<br>cyan portion of Pr signal.<br>If it is not, repeat from steps 5 and 6. |                |           |  |                     |   |
| Note:<br>After this adjustment, the C WHITE/DARK<br>CLIP adjustments are required.  |                |           | Go to SECTION 5-29   |                     |   |

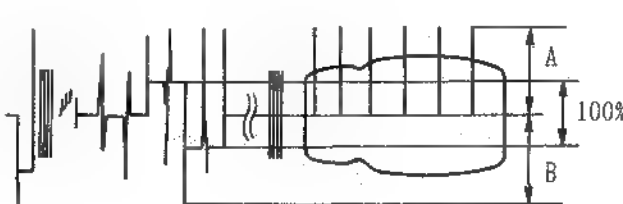
**7-32-N. C WHITE & DARK CLIP ADJUSTMENT  
(FOR AU-65 NTSC)**

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                  | ADJUSTMENT                       |
|--|----------------|-----------|--|-------------------------------|----------------------------------|
| TP205  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>75%<br>COLOR BAR | VR208 (⊕ CLIP)<br>VR207 (⊖ CLIP) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>SCOPE : TP205</li> <li>Adjust VR208 so that the A portion is <math>147.5\% \pm 5\%</math> as shown in figure.</li> <li>Adjust VR207 so that the B portion is <math>180\% \pm 5\%</math> as shown in figure.</li> </ol> |                |           |  |                               |                                  |

**7-32-P. C WHITE & DARK CLIP ADJUSTMENT  
(FOR AU-65 PAL)**

( W3 MOD & DEMOD )

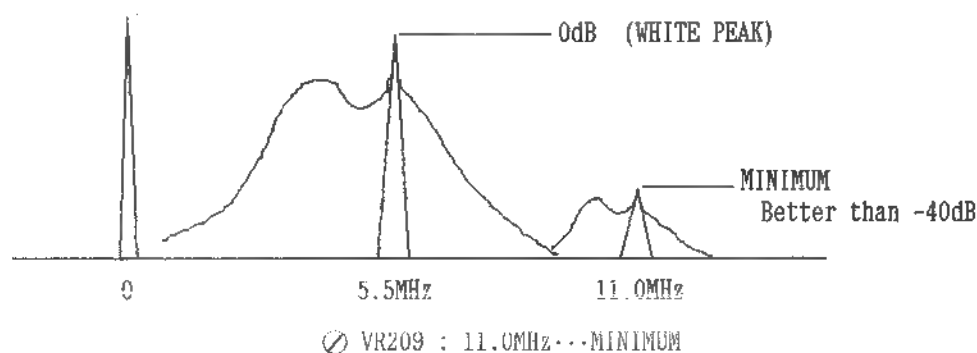
| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                     | ADJUSTMENT                       |
|--|----------------|-----------|---|----------------------------------|----------------------------------|
| TP205  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | PULSE & BAR<br>3T<br>60% H SWEEP | VR208 (⊕ CLIP)<br>VR207 (⊖ CLIP) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>SCOPE : TP205</li> <li>Adjust VR208 so that the A portion (top of sweep marker) <math>200 \pm 5\%</math> as shown in figure .</li> <li>Adjust VR207 so that the B portion is <math>200\% \pm 5\%</math> as shown in figure.</li> </ol> |                |           |  <p>A = <math>200\% \pm 5\%</math> (VR208)<br/>B = <math>200\% \pm 5\%</math> (VR207)</p> |                                  |                                  |

**7-33-N(A) . C MODULATOR BALANCE ADJUSTMENT  
(BY USING SPECTRAM ANALYZER)  
(FOR AU-65 NTSC)**

( W3 MOD & DEMOD )

| TEST POINT | MODE           | TAPE USED | M.EQ.                | INPUT SIGNAL              | ADJUSTMENT        |
|------------|----------------|-----------|----------------------|---------------------------|-------------------|
| TP207      | E-E<br>(EJECT) | -----     | SPECTRUM<br>ANALYZER | COMPONENT<br>50%<br>WHITE | VR209 (C MOD BAL) |

1. Adjust VR209 so that the second harmonic (11.0 MHz) carrier level is minimized  
(Better than -40dB)

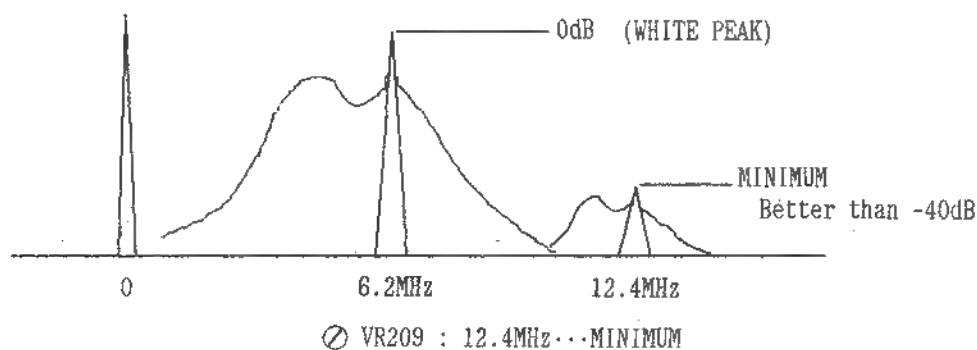


**7-33-P(A) . C MODULATOR BALANCE ADJUSTMENT  
(BY USING SPECTRAM ANALYZER)  
(FOR AU-65 PAL)**

( W3 MOD & DEMOD )

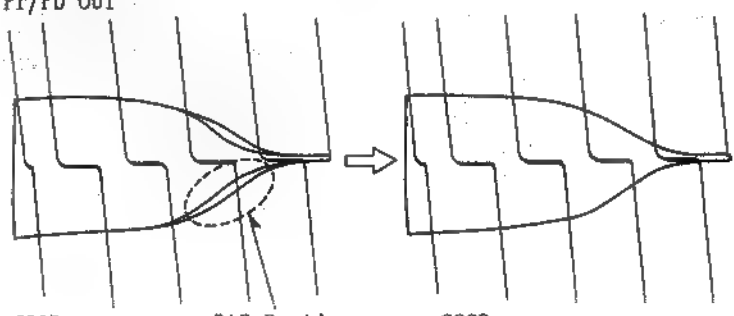
| TEST POINT | MODE           | TAPE USED | M.EQ.                | INPUT SIGNAL              | ADJUSTMENT        |
|------------|----------------|-----------|----------------------|---------------------------|-------------------|
| TP207      | E-E<br>(EJECT) | -----     | SPECTRUM<br>ANALYZER | COMPONENT<br>50%<br>WHITE | VR209 (C MOD BAL) |

1. Adjust VR209 so that the second harmonic (12.4 MHz) carrier level is minimized  
(Better than -40dB)



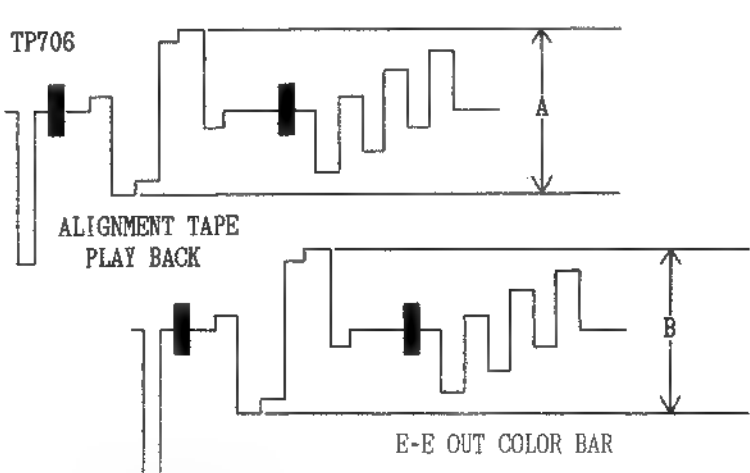
**7-33(B) . C MODULATOR BALANCE ADJUSTMENT  
(BY USING OSCILLOSCOPE)  
(FOR AU-65 NTSC & PAL)**

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                 | ADJUSTMENT        |
|---|----------------|-----------|--|------------------------------|-------------------|
| COMPONENT<br>Pr/Pb<br>OUT   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>60%<br>H. SWEEP | VR209 (C MOD BAL) |
| <p>Step 1.</p> <p>1. SCOPE : COMPONENT Pr/Pb OUT</p> <p>2. Adjust VR209 so the "A" portion High Frequency moire is minimized.</p> |                |           | <p>COMPONENT<br/>Pr/Pb OUT</p>  <p>NO GOOD      "A" Portion      GOOD</p> |                              |                   |

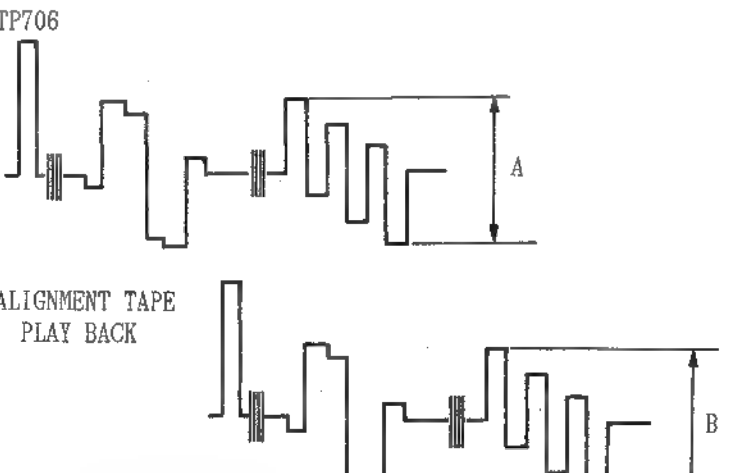
**7-34-N. C DEVIATION CONFIRMATION  
(FOR AU-65 NTSC)**

( W3 MOD & DEMOD )

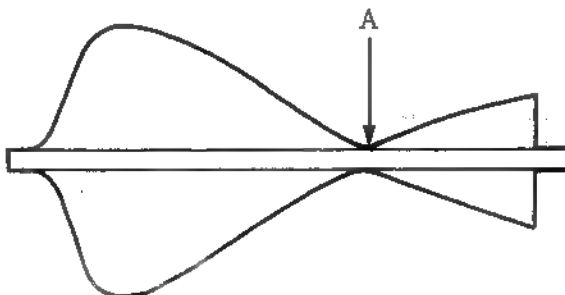
| TEST POINT  | MODE              | TAPE USED                      | M.EQ.   | INPUT SIGNAL                  | ADJUSTMENT    |
|---|-------------------|--------------------------------|---|-------------------------------|---------------|
| TP706   | PLAY<br>↓<br>STOP | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE  | COMPONENT<br>75%<br>COLOR BAR | VR204 (C DEV) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>SCOPE : TP706</li> <li>Play back the 75% color bar portion of the Alignment Tape.</li> <li>Measure the level A.</li> <li>Place the unit in the E-E mode (STOP).</li> <li>Compare the level A of the Alignment Tape play back signal and the level B of E-E color bar.</li> <li>If it is not same level *, adjust VR204 so that the E-E output level (B) becomes same level of the Alignment Tape Play back color bar level (A).</li> </ol> <p>*Note:<br/>Make sure the C WHITE &amp; DARK CLIP are adjusted (7-32-N).</p> |                   |                                | <p>TP706</p>  <p>ALIGNMENT TAPE PLAY BACK</p> <p>E-E OUT COLOR BAR</p> <p>ALIGNMENT TAPE PLAYBACK SIGNAL LEVEL (A)<br/>= E-E OUTPUT SIGNAL LEVEL (B)</p> |                               |               |

**7-34-P. C DEVIATION CONFIRMATION  
(FOR AU-65 PAL)**

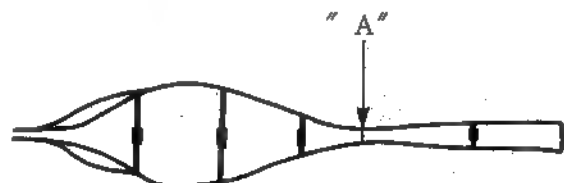
( W3 MOD & DEMOD )

| TEST POINT  | MODE              | TAPE USED                       | M.EQ.   | INPUT SIGNAL                    | ADJUSTMENT    |
|---|-------------------|---------------------------------|---|---------------------------------|---------------|
| TP706   | PLAY<br>↓<br>STOP | ALIGNMENT<br>TAPE<br>COLOUR BAR | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOUR BAR | VR204 (C DEV) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>SCOPE : TP706</li> <li>Play back the 100% colour bar portion of the Alignment Tape.</li> <li>Measure the level A.</li> <li>Place the unit in the E-E mode (STOP).</li> <li>Compare the level A of the Alignment Tape play back signal and the level B of E-E colour bar.</li> <li>If it is not same level *, adjust VR204 so that the E-E output level (B) becomes same level of the Alignment Tape Play back colour bar level (A).</li> </ol> <p>*Note:<br/>Make sure the C WHITE &amp; DARK CLIP are adjusted (7-32-P).</p> |                   |                                 | <p>TP706</p>  <p>ALIGNMENT TAPE PLAY BACK</p> <p>E-E OUT COLOUR BAR</p> <p>ALIGNMENT TAPE PLAYBACK SIGNAL LEVEL (A)<br/>= E-E OUTPUT SIGNAL LEVEL (B)</p> |                                 |               |

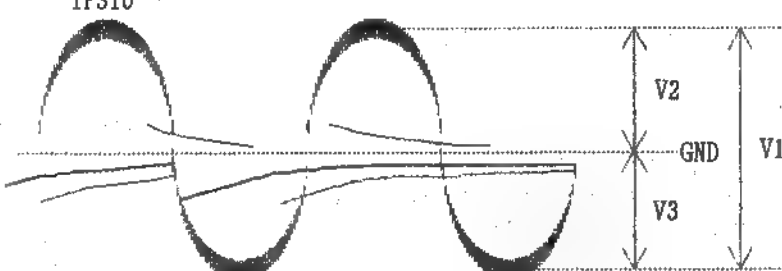
**7-35(A). C REC FM B.P.F. FREQUENCY RESPONSE ADJUSTMENT  
(FACTORY ADJ.)(FOR AU-65 NTSC & PAL)**

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL   | ADJUSTMENT             |
|--|----------------|-----------|--|--|------------------------|
| TP206<br>TPG202<br>TP207   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | LINE SWEEP<br>(0.1MHz ~ 12MHz)<br>Shibasoku<br>TO<br>TP206 (HOT)<br>TPG202 (GND) | VL201 (C REC BPF F.R.) |
| Step 1.<br>MACHINE CONDITION   |                |           | SW202 (on W3) : TEST POSITION<br>TJ201 (on W3) : OPEN CONTACT  |  |                        |
| Step 2.<br><br>1. Supply a Line Sweep Signal (0.1MHz ~ 12MHz, 500mVp-p at TP207 to TP206 (HOT) and TPG202 (GND).<br>2. SCOPE CH1 : TP207<br>SCOPE CH2 : Trigger from Generator<br>3. Adjust VL201 so that the trap frequency (A) of line sweep becomes<br>NTSC $7.0 \pm 0.1\text{MHz}$<br>PAL $9.0 \pm 0.1\text{MHz}$<br>4. SW202 (on W3) : NOT TEST POSITION<br>TJ201 (on W3) : CLOSE CONTACT |                |           | TP207 $\odot$ VL201<br><br>NTSC    A = $7.0 \pm 0.1\text{MHz}$<br>PAL     A = $9.0 \pm 0.1\text{MHz}$ |  |                        |

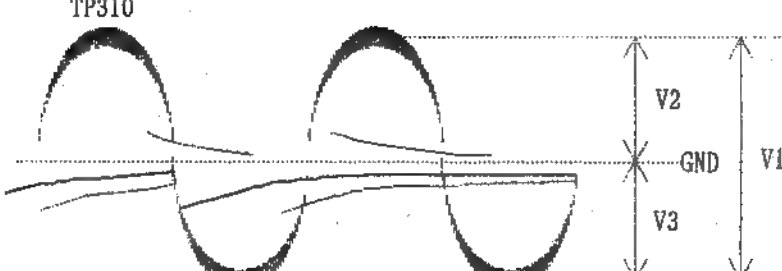
**7-35(B). C REC FM B.P.F. FREQUENCY RESPONSE ADJUSTMENT  
(FIELD ADJ.)(FOR AU-65 NTSC & PAL)**

| TEST POINT   | MODE | TAPE USED                                     | M.EQ.   | INPUT SIGNAL | ADJUSTMENT             |
|--|------|---|---|--------------|------------------------|
| TP207<br>TP206<br>TP302  | PLAY | ALIGNMENT<br>TAPE<br>RF SWEEP<br>(0 ~ 12 MHz) | OSCILLOSCOPE  | -----        | VL201 (C REC BPF F.R.) |
| Step 1.<br>MACHINE CONDITION   |      |   | SW202 (on W3) : TEST POSITION<br>TJ201 (on W3) : OPEN CONTACT   |              |                        |
| Step 2.<br><br>1. Connect a jumper wire between TP302 and TP206.<br>2. Play back the RF SWEEP portion of the Alignment Tape.<br>3. SCOPE : TP207<br>4. Adjust VL201 so that the trap frequency (A) of line sweep becomes<br>NTSC $7.0 \pm 0.1\text{MHz}$<br>PAL $9.0 \pm 0.1\text{MHz}$<br>5. SW202 (on W3) : NOT TEST POSITION<br>TJ201 (on W3) : CLOSE CONTACT |      |   | TP207 $\odot$ VL201<br> |              |                        |

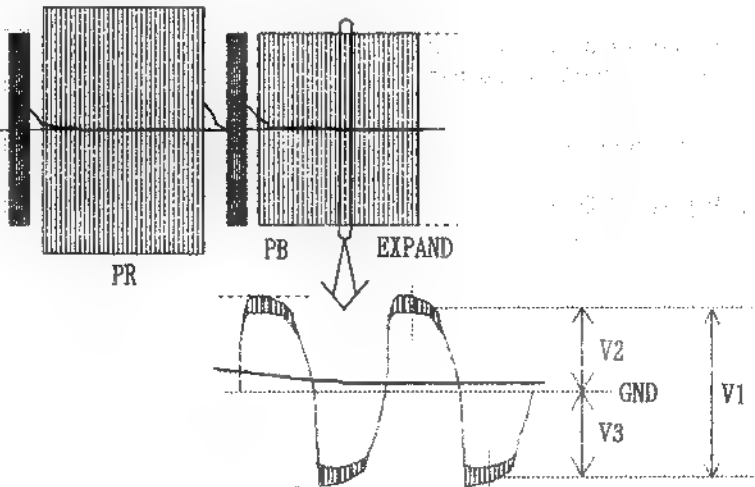
**7-36-N.Y NON LINEAR DE-EMPHASIS LIMITER LEVEL ADJUSTMENT**  
(FOR AU-65 NTSC) (W3: MOD & DEMOD)

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                 | ADJUSTMENT                                     |
|---|----------------|-----------|--|------------------------------|--|
| TP310   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100%<br>BOW TIE | VR323<br>(NL LIM BAL)<br>VR324<br>(NL LIM LEV) |
| 1. SCOPE : TP310<br><br>2. Adjust VR324 so that the level V1 becomes $340\text{mV} \pm 5\text{mVp-p}$ .<br><br>3. SCOPE SETTING : DC mode<br><br>4. Adjust VR323 so that the level V2 equals the level V3 (50 : 50%). |                |           | <div style="text-align: center;">  <p>TP310</p> <p>⊙ VR324 : <math>V1 = 340\text{mV} \pm 5\text{mVp-p}</math><br/>             ⊙ VR323 : <math>V2 = V3</math></p> </div> |                              |  |

**7-36-P.Y NON LINEAR DE-EMPHASIS LIMITER LEVEL ADJUSTMENT**  
(FOR AU-65 PAL) (W3: MOD & DEMOD)

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                 | ADJUSTMENT                                     |
|---|----------------|-----------|--|------------------------------|--|
| TP310   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100%<br>BOW TIE | VR323<br>(NL LIM BAL)<br>VR324<br>(NL LIM LEV) |
| 1. SCOPE : TP310<br><br>2. Adjust VR324 so that the level V1 becomes $360\text{mV} \pm 5\text{mVp-p}$ .<br><br>3. SCOPE SETTING : DC mode<br><br>4. Adjust VR323 so that the level V2 equals the level V3 (50 : 50%). |                |           | <div style="text-align: center;">  <p>TP310</p> <p>⊙ VR324 : <math>V1 = 360\text{mV} \pm 5\text{mVp-p}</math><br/>             ⊙ VR323 : <math>V2 = V3</math></p> </div> |                              |  |

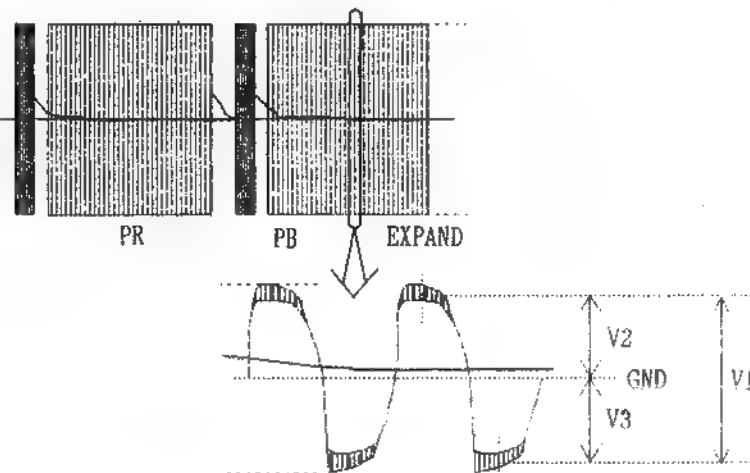
7-37-N. C NON LINEAR DE-EMPHASIS LIMITER ADJUSTMENT  
(FOR AU-65 NTSC) ( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                 | ADJUSTMENT                                  |
|---|----------------|-----------|--|------------------------------|---|
| TP707   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100%<br>BOW TIE | VR720<br>(LIM BAL)<br>VR721<br>(NL LIM LEV) |
| <ol style="list-style-type: none"> <li>1. Observe the Pb signal of CTCM signal and expand the Time/Div. of Pb signal.</li> <li>2. Adjust VR721 so that the level V1 becomes <math>340\text{mV} \pm 5\text{mVp-p}</math>.</li> <li>3. SCOPE SETTING : DC mode</li> <li>4. Adjust VR720 so that the level V2 equals the level V3 (50 : 50%).</li> </ol> |                |           | <p>TP309</p>  <p> <math>\bigcirc</math> VR721 : <math>V1 = 340\text{mV} \pm 5\text{mVp-p}</math><br/> <math>\bigcirc</math> VR720 : <math>V2 = V3</math> </p> |                              |   |



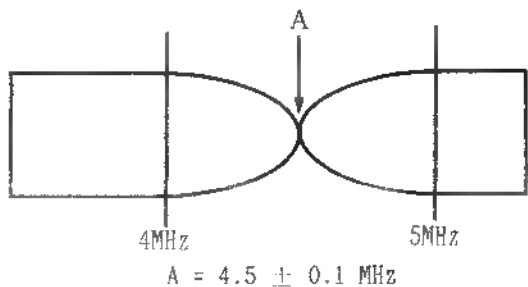
**7-37-P. C NON LINEAR DE-EMPHASIS LIMITER ADJUSTMENT**  
**(FOR AU-65 PAL)**

( W3 MOD & DEMOD )


| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                 | ADJUSTMENT                                  |
|--|----------------|-----------|--|------------------------------|---|
| TP707  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>100%<br>BOW TIE | VR720<br>(LIM BAL)<br>VR721<br>(NL LIM LEV) |
| <ol style="list-style-type: none"> <li>1. Observe the CTCM signal and expand it.</li> <li>2. Adjust VR721 so that the level V1 becomes <math>400\text{mV} \pm 5\text{mVp-p}</math>.</li> <li>3. SCOPE SETTING : DC mode</li> <li>4. Adjust VR720 so that the level V2 equals the level V3 (50 : 50%).</li> </ol> |                |           | <p>TP309</p>  <p> <math>\bigcirc</math> VR721 : <math>V1 = 400\text{mV} \pm 5\text{mVp-p}</math><br/> <math>\bigcirc</math> VR720 : <math>V2 = V3</math> </p> |                              |   |

7-38-P. Y PLAYBACK GROUP DELAY EQ ADJUSTMENT  
(FOR AU-65/63/62 PAL)

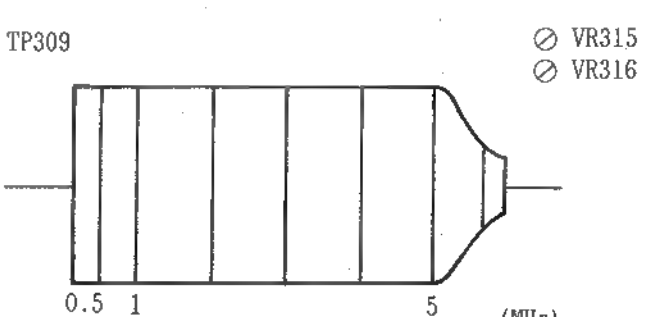
( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED          | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|---|------|--------------------|--|--------------|------------|
| TP309   | PALY | ALIGNMENT<br>SWEEP | OSCILLOSCOPE   | -----        | VL302      |
| Note:<br>This adjustment is PAL model only.<br><br>Step 1.<br>1. Open the jumper TJ302.   |      |                    | TJ302 → OPEN   |              |            |
| Step 2.<br><br>1. Adjust VL302 so that trap frequency<br>(A) is $4.5 \pm 0.1\text{MHz}$ . |      |                    |  <p style="text-align: center;">A = <math>4.5 \pm 0.1\text{ MHz}</math></p> |              |            |
| Step 3.<br><br>1. After this adjustment short the<br>jumper TJ302.                        |      |                    | TJ302 → SHORT  |              |            |


**7-39-N. Y PLAYBACK FREQUENCY RESPONSE ADJUSTMENT (COARSE) (FOR AU-62/AU-65 NTSC)** ( W3: MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                             |
|---|------|----------------------------|--|--------------|--|
| TP309<br>F29-AB<br>EDGE CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE   | -----        | VR315 R/P 1 (CH1)<br>VR316 R/P 2 (CH2) |
| 1. SCOPE CH1 : TP309<br>SCOPE CH2 : F29-AB EDGE CONNECTOR (Trigger)<br>2. SCOPE SETTING : Trigger Slope (+)<br>3. Adjust VR315 so that the Y R/P CH1 frequency response is $95\% \pm 10\%$ at 4.0MHz portion.<br>4. SCOPE SETTING : Trigger Slope (-)<br>5. Adjust VR316 so that the Y R/P CH2 frequency response is $95\% \pm 10\%$ at 4.0MHz portion. |      |                            |  <p>REF : 0.5MHz = 100%<br/>SPEC : 4MHz = <math>95\% \pm 10\%</math></p> |              |  |

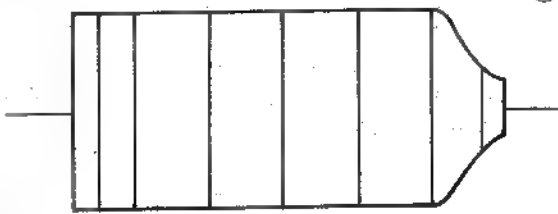
**7-39-P. Y PLAYBACK FREQUENCY RESPONSE ADJUSTMENT (COARSE) (FOR AU-62/AU-65 PAL)** ( W3: MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                             |
|---|------|----------------------------|--|--------------|--|
| TP309<br>F29-AB<br>EDGE CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE   | -----        | VR315 R/P 1 (CH1)<br>VR316 R/P 2 (CH2) |
| 1. SCOPE CH1 : TP309<br>SCOPE CH2 : F29-AB EDGE CONNECTOR (Trigger)<br>2. SCOPE SETTING : Trigger Slope (+)<br>3. Adjust VR315 so that the Y R/P CH1 frequency response is $95\% \pm 10\%$ at 5.0MHz portion.<br>4. SCOPE SETTING : Trigger Slope (-)<br>5. Adjust VR316 so that the Y R/P CH2 frequency response is $95\% \pm 10\%$ at 5.0MHz portion. |      |                            |  <p>REF : 0.5MHz = 100%<br/>SPEC : 5MHz = <math>95\% \pm 10\%</math></p> |              |  |

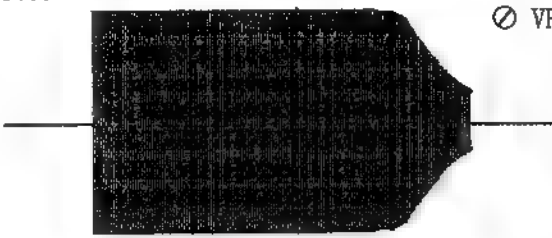
**7-40-N. Y PLAYBACK FREQUENCY RESPONSE ADJUSTMENT**  
(COARSE) (FOR AU-63 NTSC) ( W3: MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                           |
|---|------|----------------------------|--|--------------|--------------------------------------|
| TP309<br>F28-AB<br>EDGE CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE   | -----        | VR313 AT 1 (CH1)<br>VR314 AT 2 (CH2) |
| 1. SCOPE CH1 : TP309<br>SCOPE CH2 : F28-AB EDGE CONNECTOR (Trigger)<br>2. SCOPE SETTING : Trigger Slope (+)<br>3. Adjust VR313 so that the Y AT CH1 frequency response is $95\% \pm 10\%$ at 4.0MHz portion.<br>4. SCOPE SETTING : Trigger Slope (-)<br>5. Adjust VR314 so that the Y AT CH2 frequency response is $95\% \pm 10\%$ at 4.0MHz portion. |      |                            | <div style="text-align: right;">             ○ VR313<br/>             ○ VR314           </div>  <div style="margin-top: 10px;">             REF : 0.5MHz = 100%<br/>             SPEC : 4MHz = <math>95\% \pm 10\%</math> </div> |              |                                      |

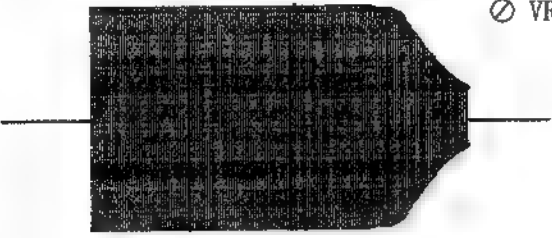
**7-40-P. Y PLAYBACK FREQUENCY RESPONSE ADJUSTMENT**  
(COARSE) (FOR AU-63 PAL) ( W3: MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                           |
|---|------|----------------------------|--|--------------|--------------------------------------|
| TP309<br>F28-AB<br>EDGE CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE   | -----        | VR313 AT 1 (CH1)<br>VR314 AT 2 (CH2) |
| 1. SCOPE CH1 : TP309<br>SCOPE CH2 : F28-AB EDGE CONNECTOR (Trigger)<br>2. SCOPE SETTING : Trigger Slope (+)<br>3. Adjust VR313 so that the Y AT CH1 frequency response is $95\% \pm 10\%$ at 5.0MHz portion.<br>4. SCOPE SETTING : Trigger Slope (-)<br>5. Adjust VR314 so that the Y AT CH2 frequency response is $95\% \pm 10\%$ at 5.0MHz portion. |      |                            | <div style="text-align: right;">             ○ VR313<br/>             ○ VR314           </div>  <div style="margin-top: 10px;">             REF : 0.5MHz = 100%<br/>             SPEC : 5MHz = <math>95\% \pm 10\%</math> </div> |              |                                      |

**7-41. C PLAYBACK FREQUENCY RESPONSE ADJUSTMENT  
(COARSE) (FOR AU-62/AU-65 NTSC & PAL)**

| TEST POINT  | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                             |
|---|------|----------------------------|---|--------------|--|
| TP706<br>F33-AB<br>EDGE CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE  | -----        | VR712 R/P 1 (CH1)<br>VR713 R/P 2 (CH2) |
| 1. SCOPE CH1 : TP706<br>SCOPE CH2 : F33-AB EDGE CONNECTOR (Trigger)<br>2. SCOPE SETTING : Trigger Slope (+)<br>3. Adjust VR712 so that the C R/P CH1 frequency response is $95\% \pm 10\%$ at 1.5MHz portion.<br>4. SCOPE SETTING : Trigger Slope (-)<br>5. Adjust VR713 so that the C R/P CH2 frequency response is $95\% \pm 10\%$ at 1.5MHz portion. |      |                            | <div style="display: flex; justify-content: space-between;"> <div>TP706</div> <div>⊗ VR712<br/>⊗ VR713</div> </div>  <div style="display: flex; justify-content: flex-end; margin-right: 50px;">       0.5      1.5      (MHz)     </div> <div style="margin-top: 10px;">       REF : 0.25MHz = 100%<br/>       SPEC : 1.5MHz = <math>95\% \pm 10\%</math> </div> |              |  |

**7-42. C PLAYBACK FREQUENCY RESPONSE ADJUSTMENT  
(COARSE) (FOR AU-63 NTSC & PAL) ( W3: MOD & DEMOD )**

| TEST POINT  | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                           |
|---|------|----------------------------|---|--------------|--------------------------------------|
| TP706<br>F32-AB<br>EDGE CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE  | -----        | VR710 AT 1 (CH1)<br>VR711 AT 2 (CH2) |
| 1. SCOPE CH1 : TP706<br>SCOPE CH2 : F32-AB EDGE CONNECTOR (Trigger)<br>2. SCOPE SETTING : Trigger Slope (+)<br>3. Adjust VR710 so that the C AT CH1 frequency response is $95\% \pm 10\%$ at 1.5MHz portion.<br>4. SCOPE SETTING : Trigger Slope (-)<br>5. Adjust VR711 so that the C AT CH2 frequency response is $95\% \pm 10\%$ at 1.5MHz portion. |      |                            | <div style="display: flex; justify-content: space-between;"> <div>TP706</div> <div>⊗ VR710<br/>⊗ VR711</div> </div>  <div style="display: flex; justify-content: flex-end; margin-right: 50px;">       0.5      1.5      (MHz)     </div> <div style="margin-top: 10px;">       REF : 0.25MHz = 100%<br/>       SPEC : 1.5MHz = <math>95\% \pm 10\%</math> </div> |              |                                      |

7-43. Y DEMOD OUTPUT DC LEVEL ADJUSTMENT  
(FOR AU-65/63/62 PAL)

( W3: MOD & DEMOD )

| TEST POINT | MODE | TAPE USED               | M.EQ.        | INPUT SIGNAL | ADJUSTMENT     |
|------------|------|-------------------------|--------------|--------------|----------------|
| TP311      | PLAY | ALIGNMENT<br>COLOUR BAR | OSCILLOSCOPE | -----        | VR325 (OUT DC) |

Note: This adjustment is PAL model only.

1. Adjust VR325 so that the pedestal level is DC  $0 \pm 0.1V$ .

7-44. C DEMOD OUTPUT DC LEVEL ADJUSTMENT  
(FOR AU-65/63/62 PAL)

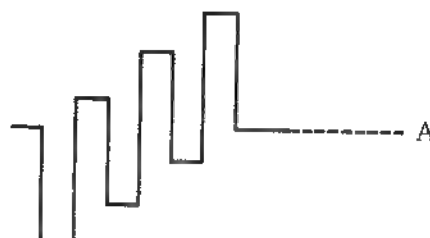
( W3: MOD & DEMOD )

| TEST POINT | MODE | TAPE USED               | M.EQ.        | INPUT SIGNAL | ADJUSTMENT     |
|------------|------|-------------------------|--------------|--------------|----------------|
| TP708      | PLAY | ALIGNMENT<br>COLOUR BAR | OSCILLOSCOPE | -----        | VR722 (OUT DC) |

Note:

This adjustment is PAL model only.

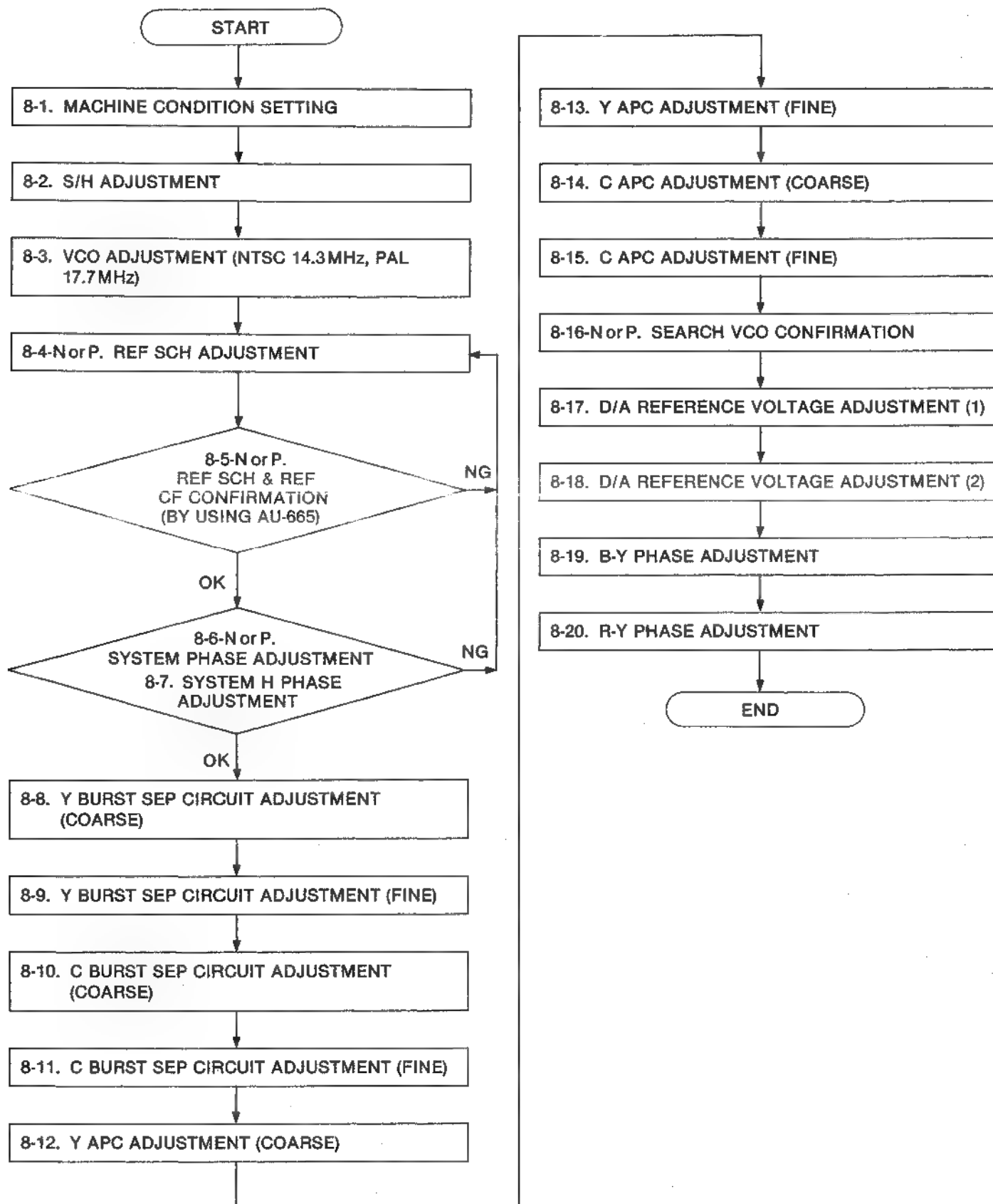
1. Adjust VR722 so that blanking DC level is DC  $0 \pm 0.1V$ .



$$A = 0 \pm 0.1V (DC)$$

## 8. TBC & SYNC GEN. (W1) BOARD (1/2)

### TBC & SYNC GEN. SECTION (1/2) (W1) FLOWCHART FOR AU-65, AU-63 AND AU-62



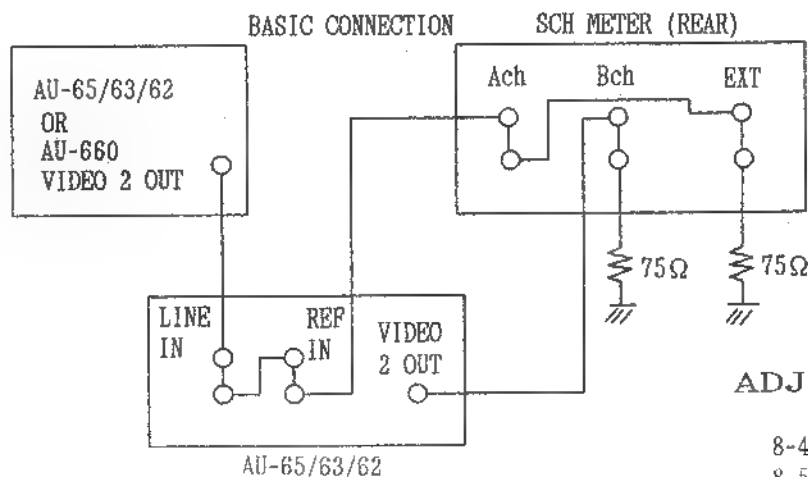
## 8. TBC & SYNC GEN. (W1) BOARD (1/2)

### 8-1. MACHINE CONDITION SETTING (FOR AU-65/63/62 NTSC & PAL)

To change the Input SCH Phase, another MII VTR is required Use the SCH Phase Adjustment Fixture as following adjustment section.

**\*NOTE:**

1. When AU-665 is used for SCH Adjustment, use SYSTEM SC PHASE (COARSE & FINE) VR on the Front Sub Panel (Behind the Front Panel).



#### ADJUSTMENT SECTION

- 8-4-N or 8-4-P. REFERENCE SCH ADJUSTMENT
- 8-5-N or 8-5-P. REFERENCE SCH & REFERENCE CF CONFIRMATION
- 8-6-N or 8-6-P. SYSTEM PHASE ADJUSTMENT
- 8-7. SYSTEM H PHASE ADJUSTMENT

### 8-2. S/H ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W1 TBC & SYNC GEN )

| TEST POINT                   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL  | ADJUSTMENT        |
|------------------------------|----------------|-----------|---|---|-------------------|
| TP203<br>TP204               | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPOSITE<br>REF. VIDEO<br>SIGNAL TO<br>REF. VIDEO IN | VR201 (S/H PHASE) |
| Step 1.<br>MACHINE CONDITION |                |           | Refer to SET UP Conditions at the beginning of this SECTION (TBC & SYNC GEN W1).  |   |                   |
| Step 2.                      |                |           | <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>1. SCOPE CH1 : TP203<br/>SCOPE CH2 : TP204 (Trigger)</p> <p>2. Adjust VR201 so that the center point of S/H pulse at TP204 is in the center point of the burst signal at TP203.</p> </div> <div style="flex: 1;"> <p>⊙ VR201</p> <p>TP203 (BURST)</p> <p>TP204 (S/H PULSE)</p> <p><math>A = B \pm 10\%</math></p> </div> </div> |   |                   |

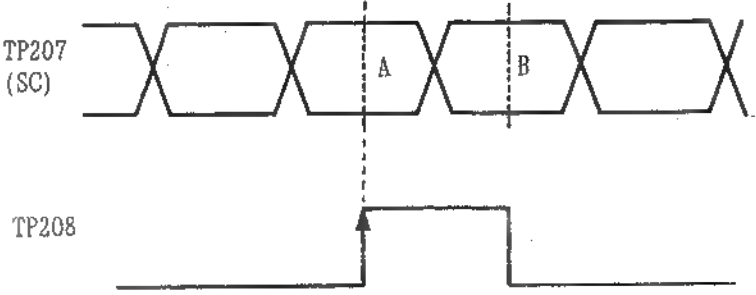
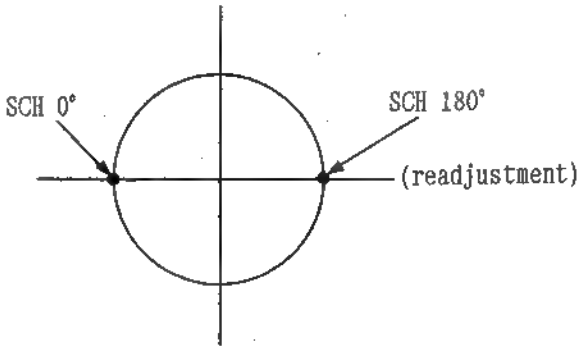


**8-3. VCO ADJUSTMENT (NTSC 14.3MHz, PAL 17.7MHz)**  
**(FOR AU-65/63/62 NTSC & PAL)** ( W1 TBC & SYNC GEN )

| TEST POINT   | MODE           | TAPE USED | M.EQ.        | INPUT SIGNAL  | ADJUSTMENT |
|--|----------------|-----------|--------------|---|------------|
| TP206  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE | COMPOSITE<br>REF. VIDEO<br>SIGNAL TO<br>REF. VIDEO IN | C234       |
| <ol style="list-style-type: none"> <li>1. Connect the SCOPE to TP206.</li> <li>2. Adjust C234 so that D.C. voltage at TP206 is 0V.</li> <li>3. Confirm C234 so that D.C. voltage at TP206 is 0V with no reference VIDEO signal.</li> </ol> |                |           |              |   |            |

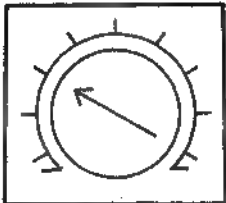
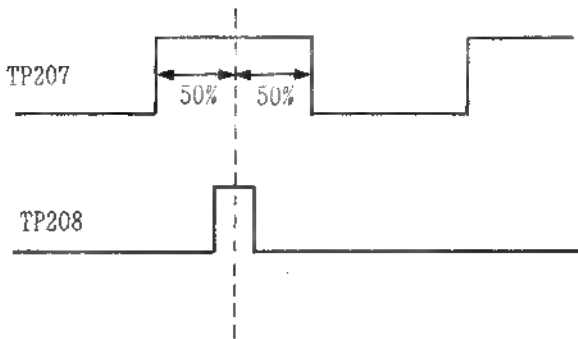
8-4-N. REF SCH DET ADJUSTMENT  
(FOR AU-65/63/62 NTSC)

( W1 TBC & SYNC GEN )


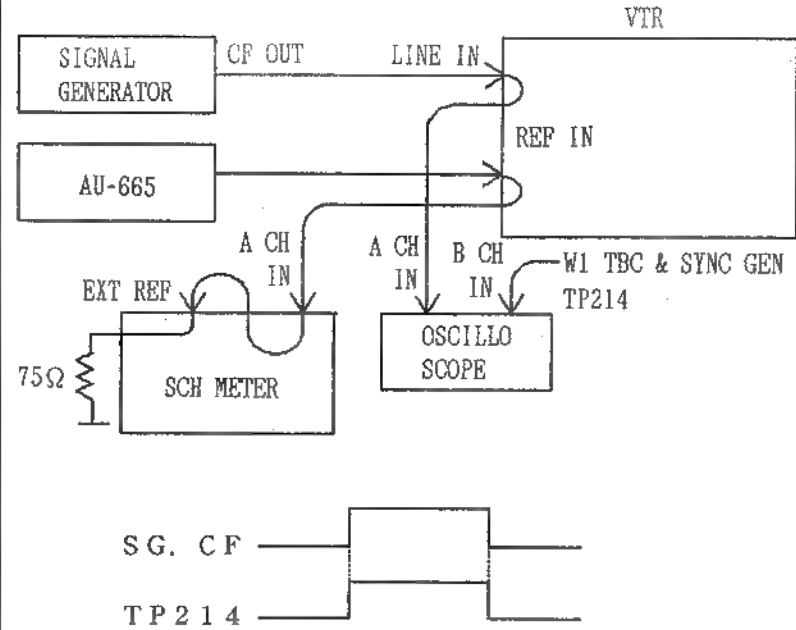



| TEST POINT   | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT      |
|--|-------|-----------|--|--------------|-----------------|
| TP207<br>TP208<br><br>VIDEO 2 OUT  | EJECT | -----     | OSCILLOSCOPE<br><br>SCH METER  | REF VIDEO    | VR202 (SCH DET) |
| <p>Step 1.</p> <p>1. Input reference signal to REF VIDEO input with SCH 0°.</p>  |       |           |  |              |                 |
| <p>Step 2.</p> <p>1. Connect the scope to TP207 and TP208 with H rate.</p> <p>2. Adjust VR202 so that rising dege at TP208 pulse is center of the pulse at TP208 as shown in figure.</p>   |       |           |  <p>TP207 (SC)</p> <p>TP208</p> |              |                 |
| <p>Step 3.</p> <p>1. Connect the SCH meter to VIDEO 2 OUT.</p> <p>2. Confirm that SCH phase of VIDEO 2 OUT is near 0° with EXT REF mode.</p> <p>3. If the SCH phase of VIDEO 2 OUT is near 180°, readjust Step 2.<br/>(When adjustment point of TP207 is "A", readjustment point is "B" as shown in figure.)</p> |       |           | <p>VIDEO 2 OUT</p>             |              |                 |

**8-4-P. REF SCH DET ADJUSTMENT  
(FOR AU-65/63/62 PAL)**

( W/ TBC & SYNC GEN )



| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL | ADJUSTMENT      |
|---|----------------|-----------|---|--------------|-----------------|
| FIELD REF<br>AT SIGNAL GEN<br><br>TP207<br>TP208<br>TP214   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | REF VIDEO    | VR202 (SCH DET) |
| <p>Step 1. (CORASE)</p> <p>1. Preset VR202 (SCH DET) to the 10 o'clock position.</p>  |                |           | <p>⊗ VR202</p>  |              |                 |
| <p>Step 2.</p> <p>1. Confirm input reference signal to REF VIDEO input with SCH 0°.</p> <p>2. Connect the scope to TP207 and TP208 with V rate.</p> <p>3. Adjust VR202 so that the pulse at TP208 is center of the pulse at TP207 as shown in figure.</p> |                |           |               |              |                 |

**8-5-N. REF SCH & REF CF CONFIRMATION (BY USING AU-665)**  
**(FOR AU-65/63/62 NTSC)** **( W1 TBC & SYNC GEN )**

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL | ADJUSTMENT |
|--|----------------|-----------|---|--------------|------------|
| REF SCH LAMP<br>(on Front Panel)<br>TP214  | EJECT<br>(E-E) | -----     | OSCILLOSCOPE  | REF. INPUT   | -----      |
| <p>Note:<br/>This confirmation in case of having AU-665 only, for fine tune-up.</p> <p>Step 1.<br/>MACHINE CONDITION</p>   |                |           | <p>Refer to Set Up Conditions at the beginning of this SECTION (TBC &amp; SYNC GEN W1).</p>   |              |            |
| <p>Step 2.</p> <p>1. Set the REF. SCH Phase to <math>+50^\circ</math> and <math>-50^\circ</math>.<br/> 2. Confirm that the REF. SCH LAMP on the Front Panel turns "ON".</p>  |                |           | <p style="text-align: right;">REF. SCH  ON</p> <p style="text-align: center;">SCH PHASE = <math>\pm 50^\circ</math></p>  |              |            |
| <p>Step 3.</p> <p>1. CONNECTION<br/> 2. CONFIRMATION<br/> 1) Confirm that the CF Pulse of the Composite Signal Generator and TP214 (on W1) are the same phase.</p>           |                |           |  <p style="text-align: center;">S.G. CF </p> <p style="text-align: center;">TP 214 </p> |              |            |
| <p>Step 4.</p> <p>1. Set the REF. SCH Phase to <math>+75^\circ</math> and <math>-75^\circ</math>.<br/> 2. Confirm that the REF. SCH LAMP on the Front Panel turns "OFF".</p> |                |           | <p style="text-align: right;">REF. SCH  OFF</p> <p style="text-align: center;">SCH PHASE = <math>\pm 75^\circ</math></p>   |              |            |

**8-5-P. REF SCH CONFIRMATION (BY USING AU-665)**  
**(FOR AU-65/63/62 PAL)**

( W1 TBC & SYNC GEN )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|---|----------------|-----------|--|--------------|------------|
| REF SCH LAMP<br>(on Front<br>Panel)   | EJECT<br>(E-E) | -----     | OSCILLOSCOPE   | REF VIDEO    | -----      |
| <p>Note:<br/>This confirmation in case of having<br/>AU-665 only.</p> <p>Step 1.<br/>MACHINE CONDITION</p>  |                |           | <p>Refer to Set Up Conditions at the beginning<br/>of this SECTION (TBC &amp; SYNC GEN W1).</p>  |              |            |
| <p>Step 2.</p> <p>1. Change the REF SCH phase from -45°<br/>TO +45° by signal generator (TEK1411).<br/>2. Confirm that the REF SCH LAMP on the<br/>Front Panel turns "ON".</p>                      |                |           | <p>REF. SCH  ON</p> <p>SCH PHASE = <math>\pm 45^\circ</math></p>              |              |            |
| <p>Step 3.</p> <p>1. Change the REF SCH phase less than<br/>-65° and more than +65° by signal<br/>generator (TEK1411).<br/>2. Confirm that the REF SCH LAMP on the<br/>Front Panel turns "OFF".</p> |                |           | <p>REF. SCH  OFF</p> <p>SCH PHASE = Less than -65°<br/>= more than +65°</p> |              |            |
| <p>Step 4.</p> <p>1. If it is not satisfied above<br/>condition, readjust, the REF. SCH<br/>adjustment 8-4-P and 8-5-P.<br/>(This adjustment.)</p>  |                |           |  |              |            |

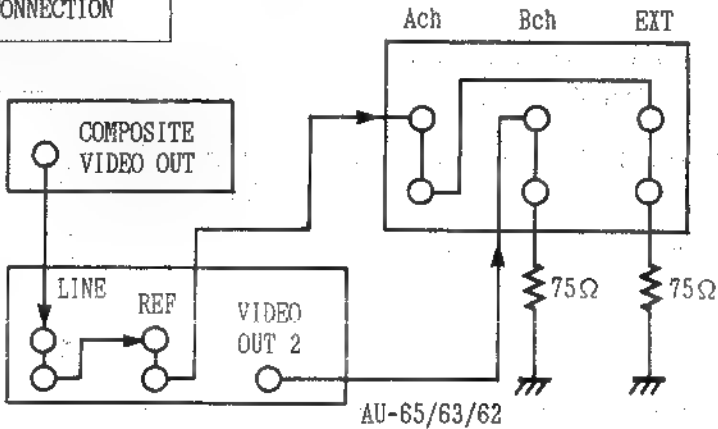
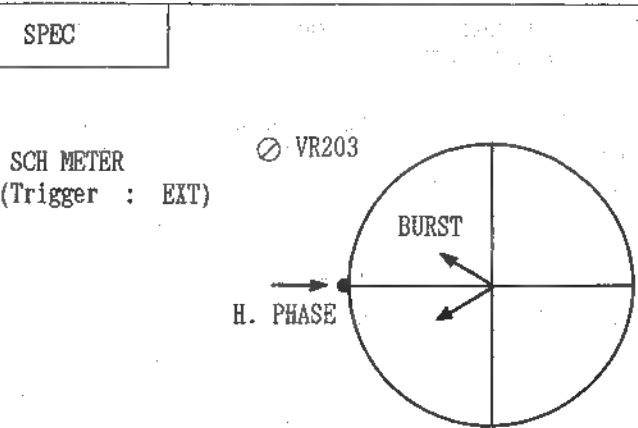
# 8-6-N. SYSTEM PHASE ADJUSTMENT (FOR AU-65/63/62 NTSC)

( W1 TBC & SYNC GEN )

| TEST POINT  | MODE  | TAPE USED   | M.EQ.   | INPUT SIGNAL  | ADJUSTMENT                                |
|---|---|---|---|---|---|
| REF VIDEO<br>VIDEO 2  | E-E<br>(EJECT)<br>FOR AU-65<br>PLAY<br>(FOR AU-63/62) | ALIGNMENT<br>TAPE<br>75%<br>COLOR BAR<br>(FOR AU-63/62) | SCH<br>METER  | REF. VIDEO<br>(SCH 0°)  | VR203 (SYS SC PHASE)<br>VR204 (SCH PHASE) |
| Step 1.<br>MACHINE CONDITION  |   |   | Refer to the Set Up Conditions at the beginning<br>of this SECTION (TBC & SYNC GEN W1). |   |   |
| Step 2.<br><br>1. Set the REF. SCH Phase to 0° with the<br>another MII VTR.<br><br>2. SYS SC FINE (Pull Out Drawer) : DETENT<br>POSITION<br><br>3. SCH METER'S trigger is EXT.<br><br>4. Change the SCH INPUT SELECT (A and B)<br>alternatly.<br><br>5. Adjust VR203 so that the A channel<br>REF VIDEO H phase and the B channel<br>VIDEO 2 OUT H phase are the same<br>phase on the SCH METER ( $0^\circ \pm 2^\circ$ )<br><br>6. Adjust VR204 so that the burst phase<br>becomes $0^\circ \pm 2^\circ$ (Trigger : INT).<br><br>Note:<br>SCH ADJ. VR on the front pull out<br>drawer is in detend position. |   |   | CONNECTION  |   |   |
|   |   |   | SPEC  | <p>SCH METER<br/>(Trigger : EXT)</p> <p>⊙ VR203</p> <p>SPECIFICATION = <math>0^\circ \pm 2^\circ</math></p> |   |

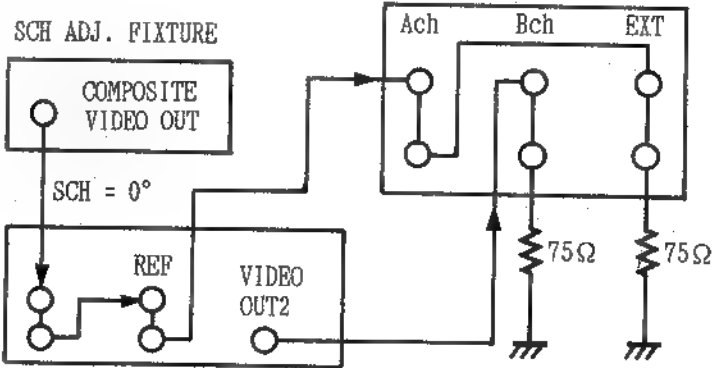
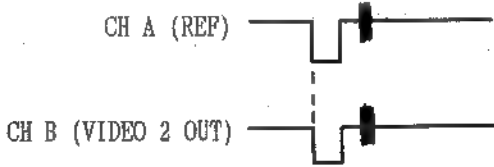
# 8-6-P. SYSTEM PHASE ADJUSTMENT (FOR AU-65/63/62 PAL)

( W1 TBC & SYNC GEN )

| TEST POINT  | MODE  | TAPE USED  | M.EQ.   | INPUT SIGNAL  | ADJUSTMENT                             |
|---|---|--|---|---|--|
| REF VIDEO<br>VIDEO 2  | E-E<br>(EJECT)<br>FOR AU-65<br>PLAY<br>(FOR AU-63/62) | ALIGNMENT<br>TAPE<br>COLOR BAR<br>(FOR AU-63/62) | SCH<br>METER  | REF. VIDEO<br>(SCH 0°)  | VR206 (CK1 PHASE)<br>VR204 (SCH PHASE) |
| Step 1.<br>MACHINE CONDITION  |   |  | Refer to the Set Up Conditions at the beginning<br>of this SECTION (TBC & SYNC GEN W1). |   |  |
| Step 2.<br><br>1. Set the REF. SCH Phase to 0° with the<br>another MII VTR.<br><br>2. SYS-SC PINE (Pull Out Drawer) : DETENT<br>POSITION<br><br>3. SCH METER'S trigger is EXT.<br><br>4. Change the SCH INPUT SELECT (A and B)<br>alternatly.<br><br>5. Adjust VR204 and VR206 so that the A<br>channel REF VIDEO H phase and the B<br>channel VIDEO 2 OUT H phase are the<br>same (0° ± 2°). |   |  | CONNECTION  |                                  |  |
|   |   |  | SPEC  |  <p>SPECIFICATION = 0° ± 2°</p> |  |

# 8-7. SYSTEM H PHASE ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W1 TBC & SYNC GEN )

| TEST POINT  | MODE  | TAPE USED  | M.EQ.   | INPUT SIGNAL           | ADJUSTMENT      |
|---|---|--|---|------------------------|-----------------|
| VIDEO 2<br>REF VIDEO  | E-E<br>(EJECT)<br>FOR AU-65<br>PLAY<br>(FOR AU-63/62) | ALIGNMENT<br>TAPE<br>COLOR BAR<br>(FOR AU-63/62) | SCH<br>METER<br>(WFM Mode)  | REF. VIDEO<br>(SCH 0°) | VR205 (H PHASE) |
| <p>1. CONNECTION</p> <p>2. MACHINE CONDITION<br/>Refer to the Machine Set Up Condition for TBC &amp; SYNC GEN (W1).</p>   |   |  |  <p>AU-62/AU-63/AU-65</p> |                        |                 |
| <p>3. SCH METER : WFM Mode</p> <p>4. Change the channel A and B alternately.</p> <p>5. Adjust VR205 so that the B channel's falling edge of Sync becomes the same as the A channel falling edge of Sync as shown.</p>   |   |  |                         |                        |                 |
| <p>6. CONFIRMATION</p> <p>(1) REF VIDEO and VIDEO 2, H phase converge on same point when the power is turned ON and OFF.</p> <p>(2) When the SYSTEM SC COARSE (on Front Pull Out Drawer) is changed to <math>\pm 90^\circ</math>, SYSTEM SC phase moves<br/> NTSC <math>\pm 70</math> nsec.<br/> PAL <math>\pm 57</math> nsec.</p> <p>7. If it is not within specification, readjust VR205.</p> |   |  |   |                        |                 |



**8-8. Y BURST SEP CIRCUIT ADJUSTMENT (COARSE)**  
(FOR AU-65/63/62 NTSC & PAL)

( W1 TBC & SYNC GEN )

| TEST POINT                   | MODE | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT           |
|------------------------------|------|--------------------------------|--------------|--------------|----------------------|
| F15B<br>(CONNECTOR)<br>TP412 | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR401 (Y SYNC PHASE) |

⊙ VR401

F 1 5 B

TP 4 1 2  
(Trigger)

A

NTSC A = 7.2  $\mu$ sec.  
PAL A = 7.0  $\mu$ sec.  
(Trigger : TP412)

**8-9. Y BURST SEP CIRCUIT ADJUSTMENT (FINE)**  
(FOR AU-65/63/62 NTSC & PAL)

( W1 TBC & SYNC GEN )

| TEST POINT     | MODE | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT           |
|----------------|------|--------------------------------|--------------|--------------|----------------------|
| TP412<br>TP413 | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR401 (Y SYNC PHASE) |

⊙ VR401

TP 4 1 2  
(Trigger)

A B

A = B  $\pm$  10%

TP 4 1 3

(Trigger : TP412)

**8-10. C BURST SEP CIRCUIT ADJUSTMENT (COARSE)**  
(FOR AU-65/63/62 NTSC & PAL) ( W1 TBC & SYNC GEN )

| TEST POINT                   | MODE | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT           |
|------------------------------|------|--------------------------------|--------------|--------------|----------------------|
| F16B<br>(CONNECTOR)<br>TP416 | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR409 (C SYNC PHASE) |

⊙ VR409

F 1 6 B

TP 4 1 6  
(Trigger)

NTSC A = 1.6  $\mu$  sec.

PAL A = 1.5  $\mu$  sec.

(Trigger : TP416)

**8-11. C BURST SEP CIRCUIT ADJUSTMENT (FINE)**  
(FOR AU-65/63/62 NTSC & PAL) ( W1 TBC & SYNC GEN )

| TEST POINT     | MODE | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT           |
|----------------|------|--------------------------------|--------------|--------------|----------------------|
| TP416<br>TP417 | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR409 (C SYNC PHASE) |

⊙ VR409

TP 4 1 6  
(Trigger)

TP 4 1 7

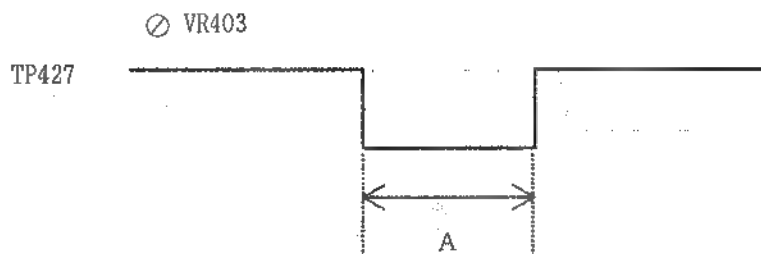
A = B  $\pm$  10%

(Trigger : TP416)

**8-12. Y APC ADJUSTMENT (COARSE)**  
(FOR AU-65/63/62 NTSC & PAL)

( W1 TBC & SYNC GEN )

| TEST POINT | MODE | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT      |
|------------|------|--------------------------------|--------------|--------------|-----------------|
| TP427      | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR403 ( Y APC ) |



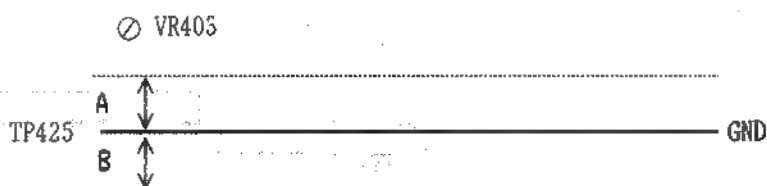
$$A = 150 \text{ ns} \pm 5 \text{ ns}$$

**8-13. Y APC ADJUSTMENT (FINE)**  
(FOR AU-65/63/62 NTSC & PAL)

( W1 TBC & SYNC GEN )

| TEST POINT | MODE | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT      |
|------------|------|--------------------------------|--------------|--------------|-----------------|
| TP425      | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR403 ( Y APC ) |

1. SCOPE SETTING : GND
2. Set the scan line to the center position on the scope.
3. SCOPE SETTING : AC MODE
4. Adjust VR403 so that the A and B are balanced as shown.



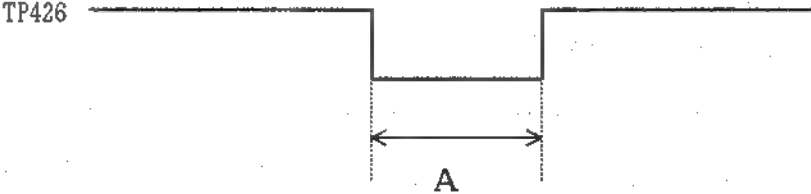
$$A = B \pm 10\% \text{ (V RATE)}$$

**8-14. C APC ADJUSTMENT (COARSE)**  
(FOR AU-65/63/62 NTSC & PAL)

( W1 TBC & SYNC GEN )

| TEST POINT | MODE | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT      |
|------------|------|--------------------------------|--------------|--------------|-----------------|
| TP426      | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR408 ( C APC ) |

⊙ VR408



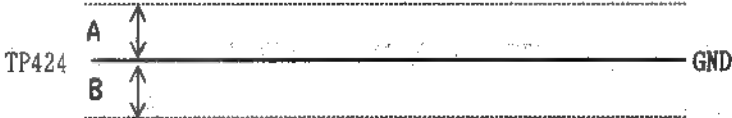
$A = 150 \text{ ns} \pm 5 \text{ ns}$

**8-15. C APC ADJUSTMENT (FINE)**  
(FOR AU-65/63/62 NTSC & PAL)

( W1 TBC & SYNC GEN )

| TEST POINT | MODE | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT      |
|------------|------|--------------------------------|--------------|--------------|-----------------|
| TP424      | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR408 ( C APC ) |

1. SCOPE SETTING : GND
2. Set the scan line to the center position on the scope.
3. SCOPE SETTING : AC MODE
4. Adjust VR408 so that the A and B are balanced as shown in figure.



$A = B \pm 10\% \text{ (V LATE)}$

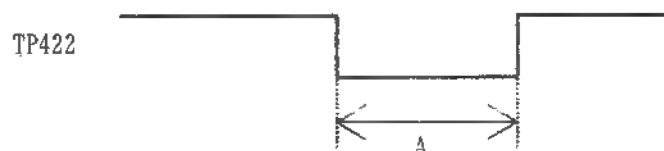
8-16-N. SEARCH VCO CONFIRMATION  
(FOR AU-65/63/62 NTSC)

( W1: TBC & SYNC GEN )

| TEST POINT | MODE              | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT         |
|------------|-------------------|--------------------------------|--------------|--------------|--------------------|
| TP422      | SHTL<br>&<br>PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR402 (SEARCH VCO) |

CONFIRMATION

1. SHTL  $\pm$   $\times 4$  SPEED = WITH COLOR PLAYBACK.
  2. SHTL  $\pm$  32 SPEED = BLACK & WHITE PICTURE (WITHOUT HORIZONTAL EXTENSION AND COMPRESSION)
- If it is not, readjust VR402 so that the pulse width at TP422 is  $450 \pm 50\text{ns}$  at playback.



8-16-P. SEARCH VCO CONFIRMATION  
(FOR AU-65/63/62 PAL)

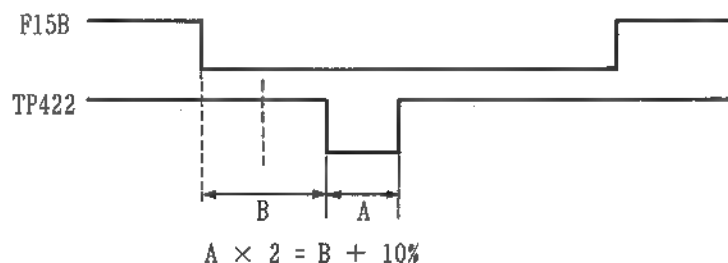
( W1: TBC & SYNC GEN )

| TEST POINT                      | MODE              | TAPE USED                      | M.EQ.        | INPUT SIGNAL | ADJUSTMENT         |
|---------------------------------|-------------------|--------------------------------|--------------|--------------|--------------------|
| TP422<br>F15B<br>(W1 connector) | SHTL<br>&<br>PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE | -----        | VR402 (SEARCH VCO) |

CONFIRMATION

1. SHTL  $\pm$   $\times 4$  SPEED = WITH COLOR PLAYBACK.
2. SHTL  $\pm$  32 SPEED = BLACK & WHITE PICTURE (WITHOUT HORIZONTAL EXTENSION AND COMPRESSION)

If it is not, readjust VR402 so that the pulse width at TP422 is as shown in Figure at playback.



**8-17. D/A REFERENCE VOLTAGE ADJUSTMENT (1)**  
**(FOR AU-65/63/62 NTSC & PAL)**

( W1 TBC & SYNC GEN )

| TEST POINT  | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT       |
|---|------|--------------------------------|---|--------------|------------------|
| TP1   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | Digital<br>Voltage<br>Meter                     | -----        | VR1 (AJ. REF. 1) |
| Step 1.<br>MACHINE CONDITION                        |      |                                | VIDEO LEVEL VR = CENTER<br>(on Pull Out Drawer) |              |                  |
| Step 2.<br>1. Connect D.V.M. to TP1 and adjust VR1. |      |                                | ⊗ VR1<br>SPECIFICATION = $4.1 \pm 0.01V$ (DC)   |              |                  |


**8-18. D/A REFERENCE VOLTAGE ADJUSTMENT (2)**  
**(FOR AU-65/63/62 NTSC & PAL)**

( W1 TBC & SYNC GEN )

| TEST POINT  | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT       |
|---|------|--------------------------------|---|--------------|------------------|
| TP2   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | Digital<br>Voltage<br>Meter   | -----        | VR2 (AJ. REF. 2) |
| Step 1.<br>MACHINE CONDITION                        |      |                                | Set the switches on the Pull Out Drawer as follows.<br>1. VIDEO LEVEL VR : CENTER<br>2. CHROMA LEVEL : CENTER<br>3. PR LEVEL : CENTER<br>4. PB LEVEL : CENTER |              |                  |
| Step 2.<br>1. Connect D.V.M. to TP2 and adjust VR2. |      |                                | ⊗ VR2<br>SPECIFICATION = $4.1 \pm 0.01V$ (DC)   |              |                  |


**8-19. B-Y PHASE ADJUSTMENT**  
(FOR AU-65/63/62 NTSC & PAL)

( W1 TBC & SYNC GEN )

|   |  |
|---|--|
| <p>Step 1.</p> <p>1. Turn VR405 center position.</p> <p>Note:<br/>VR405 is for user, so confirm the user setting.</p> | <p>VR406</p>  |
|---|--|

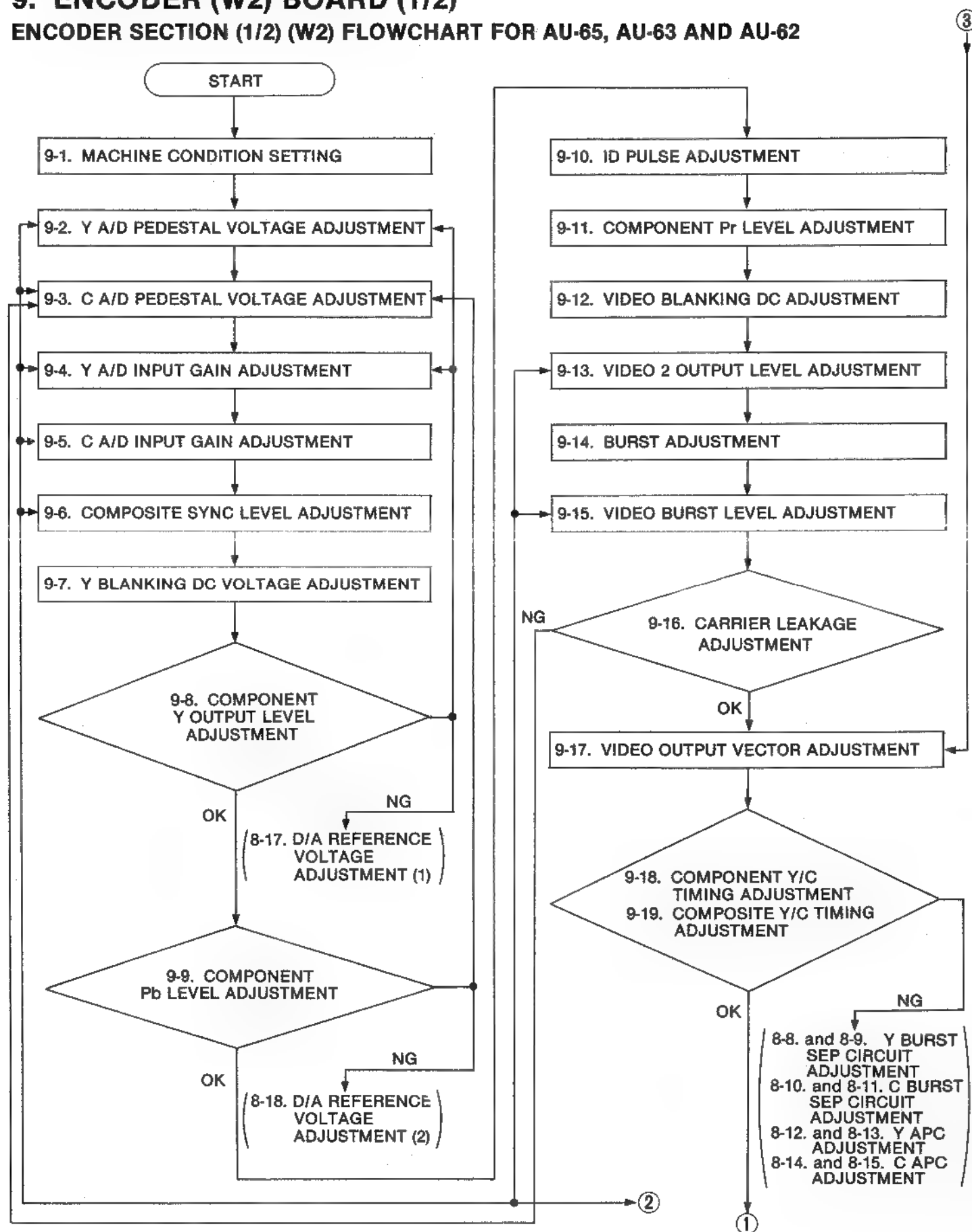
**8-20. R-Y PHASE ADJUSTMENT**  
(FOR AU-65/63/62 NTSC & PAL)

( W1 TBC & SYNC GEN )

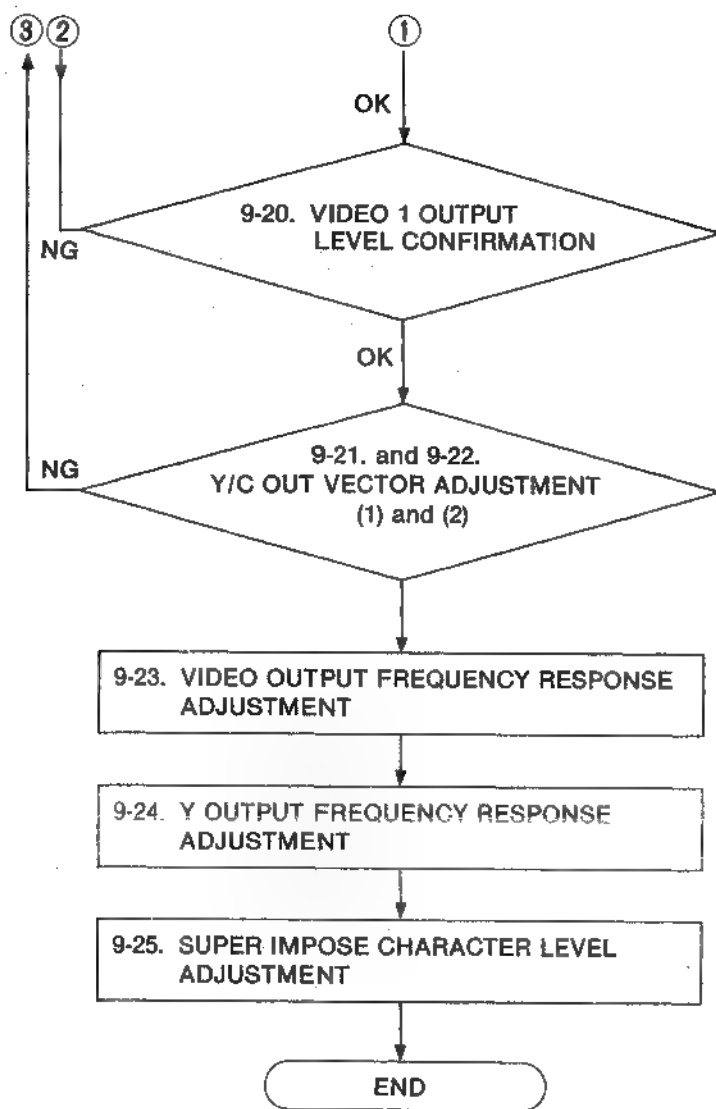
|   |   |
|---|---|
| <p>Step 1.</p> <p>1. Turn VR406 center position.</p> <p>Note:<br/>VR406 is for user, so confirm the user setting.</p> | <p>VR406</p>  |
|---|---|

## 9. ENCODER (W2) BOARD (1/2)

### ENCODER SECTION (1/2) (W2) FLOWCHART FOR AU-65, AU-63 AND AU-62







## 9. ENCODER (W2) BOARD (1/2)

### 9-1. MACHINE CONDITION SETTING (FOR AU-65/63/62 NTSC & PAL)

Use 75 $\Omega$  terminator with Waveform Monitor or Oscilloscope for level adjustment.

- |  |       |                 |
|--|-------|-----------------|
| 1. CF SELECT SW ( on Front Sub Panel )               | ----- | NTSC 4F, PAL 8F |
| 2. SYNC SELECT SW ( on Front Sub Panel )             | ----- | AUTO            |
| 3. COMPONENT Y/Pr/Pb LEVEL VR ( on Pull Out Drawer ) | ---   | DETENT POSITION |
| 4. VIDEO LEVEL VR                                    | ----- | DETENT POSITION |
| 5. SET UP LEVEL VR                                   | ----- | DETENT POSITION |
| 6. CHROMA LEVEL VR                                   | ----- | DETENT POSITION |
| 7. HUE VR  | ----- | DETENT POSITION |

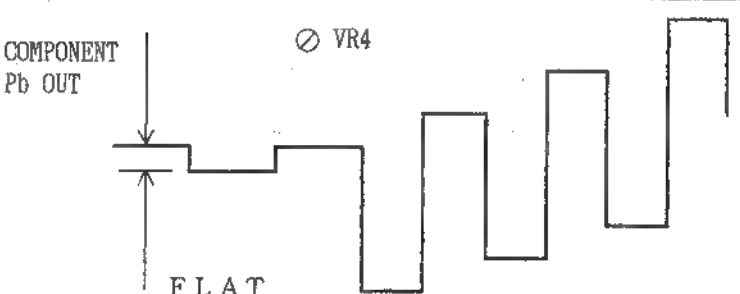
### 9-2. Y A/D PEDESTAL VOLTAGE ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT  | MODE | TAPE USED                              | M.EQ.                                 | INPUT SIGNAL | ADJUSTMENT   |
|---|------|--|---------------------------------------|--------------|--------------|
| TP201   | PLAY | ALIGNMENT<br>TAPE<br>100%<br>COLOR BAR | OSCILLOSCOPE                          | -----        | VR 2 (Y REF) |
| 1. SCOPE : TP201<br><br>2. When VR2 is turned, a step will appear at pedestal.<br><br>3. Adjust VR2 so that "A" part is "FLAT". |      |  | <p>TP201 <math>\oslash</math> VR2</p> |              |              |

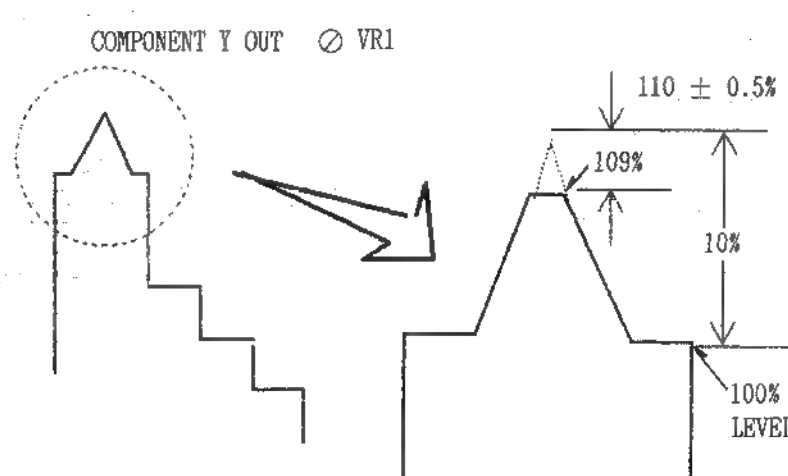
### 9-3. C A/D PEDESTAL VOLTAGE ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT  | MODE | TAPE USED                        | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|---|------|----------------------------------|--|--------------|--------------|
| COMPONENT Pb OUT  | PLAY | ALIGNMENT TAPE<br>100% COLOR BAR | OSCILLOSCOPE   | -----        | VR 4 (C REF) |
| 1. SCOPE : COMPONENT Pb OUT<br>2. When VR4 is turned, a step will appear appear at pedestal.<br>3. Adjust VR4 so that the step at pedestal is "FLAT". |      |                                  |  |              |              |

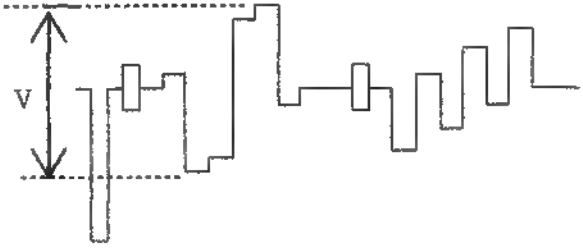
### 9-4. Y A/D INPUT GAIN ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT   | MODE   | TAPE USED  | M.EQ.  | INPUT SIGNAL  | ADJUSTMENT  |
|--|--|--|--|---|-------------|
| COMPONENT<br>Y OUT   | E-E<br>(For AU-65)<br><br>PLAY<br>(For AU-63/62) | Pre-recorded<br>Level Reference<br>Color Bar<br>(For AU-63/62) | WAVEFORM<br>MONITOR<br>OR<br>OSCILLOSCOPE  | COMPONENT<br>COLOR BAR<br>LEVEL<br>REFERENCE SIGNAL | VR 1 (Y. G) |
| <p>Step 1. (For AU-65)</p> <p>1. SCOPE : COMPONENT Y OUT</p> <p>2. Adjust VR1 so that the Top portion is clipped as shown in figure.</p>   |  |  |  |   |             |
| <p>Step 2. (For AU-63/62)</p> <p>1. SCOPE : COMPONENT Y OUT</p> <p>2. Play back the Pre-recorded Color Bar Level Reference Signal.</p> <p>3. Adjust VR1 so that the Top Portion of the Color Bar Level Reference Signal is clipped as shown in figure.</p> |  |  |  |   |             |

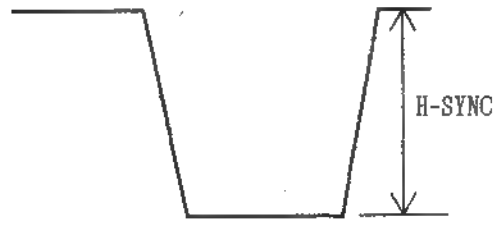
**9-5. C A/D INPUT GAIN ADJUSTMENT**  
(FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT  | MODE | TAPE USED                                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT  |
|---|------|--|--|--------------|-------------|
| TP 4  | PLAY | ALIGNMENT<br>COLOR BAR<br>NTSC 75%<br>PAL 100% | OSCILLOSCOPE   | -----        | VR 3 (C. G) |
| 1. Adjust VR3 so that R-Y level is<br><br>NTSC : $1.22 \pm 0.02V_{p-p}$<br>PAL : $1.75 \pm 0.02V_{p-p}$ |      |  | TP4 $\oslash$ VR3<br><br><br><br>V = NTSC : $1.22 \pm 0.02V_{p-p}$<br>PAL : $1.75 \pm 0.02V_{p-p}$ |              |             |

**9-6. COMPOSITE SYNC LEVEL ADJUSTMENT**  
(FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT      |
|--|----------------|-----------|--|--------------|-----------------|
| VIDEO 2<br>OUT   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE<br>(with 75 $\Omega$<br>terminator)   | -----        | VR210 (SYNC. G) |
| 1. Adjust VR210 so that H-SYNC level is<br><br>NTSC : $0.286 \pm 0.004V_{p-p}$<br>PAL : $0.3 \pm 0.006V_{p-p}$ |                |           | VIDEO 2<br>OUT<br><br>$\oslash$ VR210<br><br><br><br>NTSC : H. SYNC LEVEL = $0.286 \pm 0.004V_{p-p}$<br>PAL : H. SYNC LEVEL = $0.3 \pm 0.006V_{p-p}$ |              |                 |

# 9-7. Y BLANKING DC VOLTAGE ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL | ADJUSTMENT        |
|--|----------------|-----------|---|--------------|-------------------|
| COMPONENT<br>Y OUT   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | -----        | VR202 (Y. BLK DC) |
| 1. Adjust VR202 so that H-BLANKING DC level is $0 \pm 20\text{mV}$ at COMPONENT Y OUT. |                |           | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <math>\odot</math> VR202             </div> <div> <p>DC BLANKING LEVEL = <math>0 \pm 20\text{mV}</math></p> </div> </div> |              |                   |

# 9-8. COMPONENT Y OUTPUT LEVEL ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                    |
|--|------|--------------------------------|--|--------------|-------------------------------|
| COMPONENT<br>Y OUT   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE<br>(with $75\Omega$<br>terminator)  | -----        | VR200 (Y. G)<br>VR201 (Y. DC) |
| 1. Confirm that the sync level is $0.3 \pm 0.005\text{Vp-p}$ .<br><br>2. If sync level is incorrect, readjust COMPOSITE SYNC LEVEL ADJ. (9-6)<br><br>3. Adjust VR200 so that the Y signal level is $0.7 \pm 0.007\text{Vp-p}$ .<br><br>4. Adjust VR201 so that Y pedestal DC is $0 \pm 5\text{mV}$ . |      |                                | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>COMPONENT<br/>Y OUT</p> </div> <div> <p><math>\odot</math> VR200    <math>A = 0.7 \pm 0.007\text{Vp-p}</math></p> <p><math>\odot</math> VR201    <math>B = 0 \pm 5\text{mV (DC)}</math></p> </div> </div> |              |                               |

# 9-9. COMPONENT Pb LEVEL ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT          | MODE | TAPE USED  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                          |
|---------------------|------|--|--|--------------|-------------------------------------|
| COMPONENT<br>Pb OUT | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | OSCILLOSCOPE<br><br>(with 75Ω<br>terminator) | -----        | VR203 (PB. G)<br><br>VR204 (PB. DC) |

COMPONENT Pb OUT      ⓪ VR203  
                                 ⓪ VR204 (PAL)

NTSC : A =  $0.486 \pm 0.005\text{Vp-p}$   
PAL : A =  $0.7 \pm 0.007\text{Vp-p}$   
"B" portion DC voltage =  $0 \pm 20\text{mV}$

# 9-10. ID PULSE ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT          | MODE | TAPE USED                              | M.EQ.  | INPUT SIGNAL | ADJUSTMENT     |
|---------------------|------|--|--|--------------|----------------|
| COMPONENT<br>Pb OUT | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR<br>VISC | OSCILLOSCOPE<br><br>(with 75Ω<br>terminator) | -----        | VR212 (ID BAL) |

Step 1.  
MACHINE CONDITION

Refer to SET UP Conditions at the beginning of this SECTION (ENCODER - W2).

Step 2.

1. Adjust VR212 so that the ID pulse levels A and B are equal (See fig.)

2. Confirm that the ID pulse level is

NTSC : A = B =  $0.26 \sim 0.35\text{V}$ .  
PAL : A = B =  $0.3 \sim 0.35\text{V}$

COMPONENT Pb OUT      I D PULSE      ⓪ VR212

NTSC A = B =  $0.26 \sim 0.35\text{Vp-p}$   
PAL A = B =  $0.3 \sim 0.35\text{Vp-p}$

**9-11. COMPONENT Pr LEVEL ADJUSTMENT**  
(FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                      |
|--|------|--|--|--------------|---------------------------------|
| COMPONENT<br>Pr OUT  | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | OSCILLOSCOPE<br><br>(with 75Ω<br>terminator)                                   | -----        | VR205 (PR. G)<br>VR206 (PR. DC) |
| Step 1.<br>MACHINE CONDITION   |      |  | Refer to SET UP Conditions at the beginning<br>of this SECTION (ENCODER - W2). |              |                                 |
| <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;"> <p>COMPONENT<br/>Pr OUT</p> <p>⊙ VR205</p> <p>⊙ VR206</p> <p>NTSC      A = 0.486 ± 0.005Vp-p</p> <p>PAL        A = 0.7    ± 0.007Vp-p</p> <p>"B" portion   DC voltage 0 ± 20mVp-p</p> </div> <div style="width: 60%; text-align: center;"> </div> </div> |      |  |  |              |                                 |

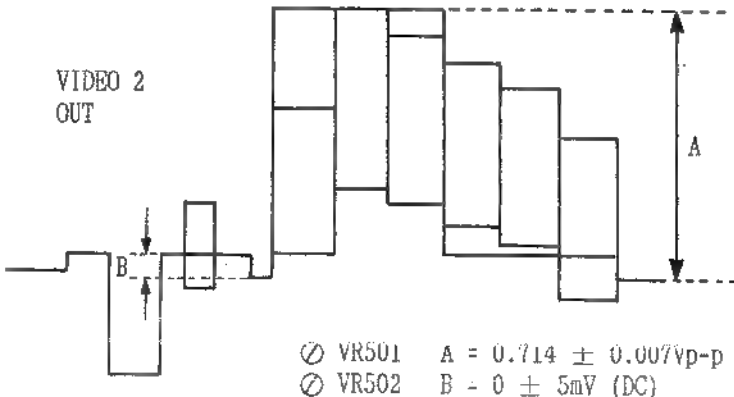
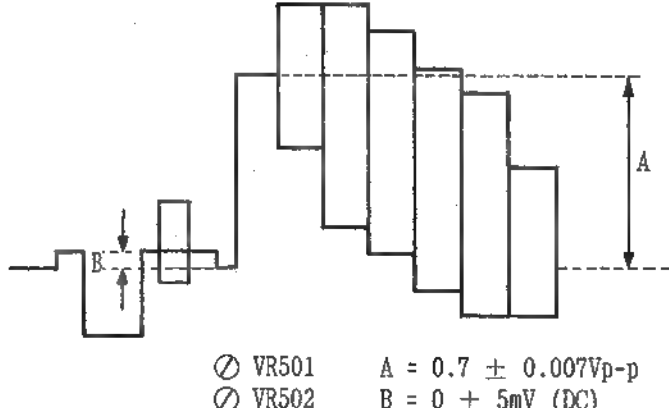
**9-12. VIDEO BLANKING DC ADJUSTMENT**  
(FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT  | MODE  | TAPE USED | M.EQ.        | INPUT SIGNAL | ADJUSTMENT          |
|---|-------|-----------|--------------|--------------|---------------------|
| VIDEO 2<br>OUT  | EJECT | -----     | OSCILLOSCOPE | -----        | VR503 (V1, BLK, DC) |
| <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="width: 30%;"> <p>⊙ VR503</p> <p>VIDEO 2<br/>OUT</p> </div> <div style="width: 60%; text-align: center;"> <p>VIDEO DC BLANKING LEVEL = 0 ± 20mV</p> </div> </div> |       |           |              |              |                     |

# 9-13. VIDEO 2 OUTPUT LEVEL ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT                   | MODE | TAPE USED  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                |
|------------------------------|------|--|--|--------------|---|
| VIDEO 2<br>OUT               | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | OSCILLOSCOPE<br><br>(with 75Ω<br>terminator)   | -----        | VR501 (VIDEO. G)<br><br>VR502 (VIDEO. DC) |
| Step 1.<br>MACHINE CONDITION |      |  | Refer to SET UP Conditions at the beginning<br>of this SECTION (ENCODER - W2).   |              |   |
| Step 2. [ NTSC ]             |      |  |  <p>VIDEO 2<br/>OUT</p> <p>⊙ VR501    A = <math>0.714 \pm 0.007V_{p-p}</math> (NTSC)<br/>⊙ VR502    B = <math>0 \pm 5mV</math> (DC)</p> |              |   |
| Step 2. [ PAL ]              |      |  |  <p>⊙ VR501    A = <math>0.7 \pm 0.007V_{p-p}</math> (PAL)<br/>⊙ VR502    B = <math>0 \pm 5mV</math> (DC)</p>                          |              |   |

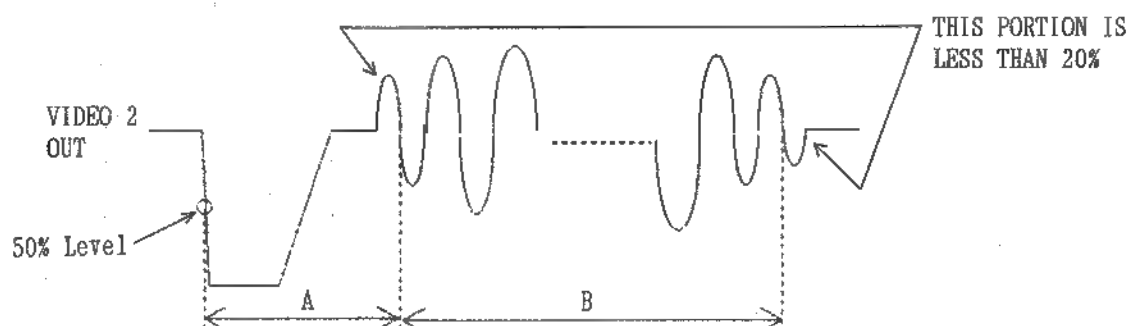


**9-14. BURST ADJUSTMENT**  
(FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT     | MODE           | TAPE USED | M.EQ.        | INPUT SIGNAL                   | ADJUSTMENT                            |
|----------------|----------------|-----------|--------------|--------------------------------|---------------------------------------|
| VIDEO 2<br>OUT | E-E<br>(EJECT) | -----     | OSCILLOSCOPE | COMPONENT<br>100%<br>COLOR BAR | VR510 (BF $\phi$ )<br>VR511 (BF. WID) |

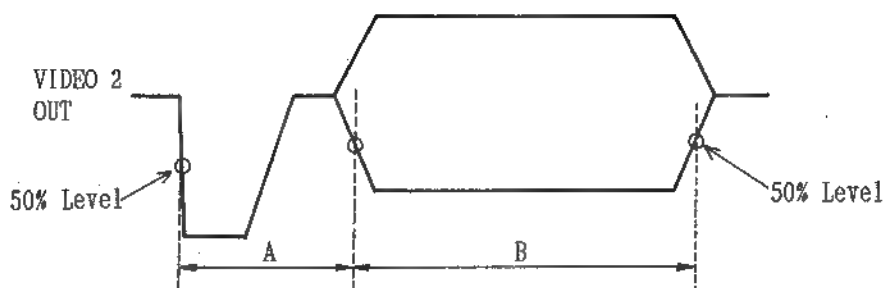
**NTSC SPECIFICATIONS**



VIDEO 2 OUT THIS PORTION IS LESS THAN 20%  
BURST POSITION :  $A = 5.3 \pm 0.1 \mu \text{sec.}$   
( $\phi$  VR510)

BURST WIDTH :  $B = 9 \pm 1 \text{ cycle}$   
( $\phi$  VR511)  $(2.51 \pm 0.29 \mu \text{sec.})$

**PAL SPECIFICATIONS**

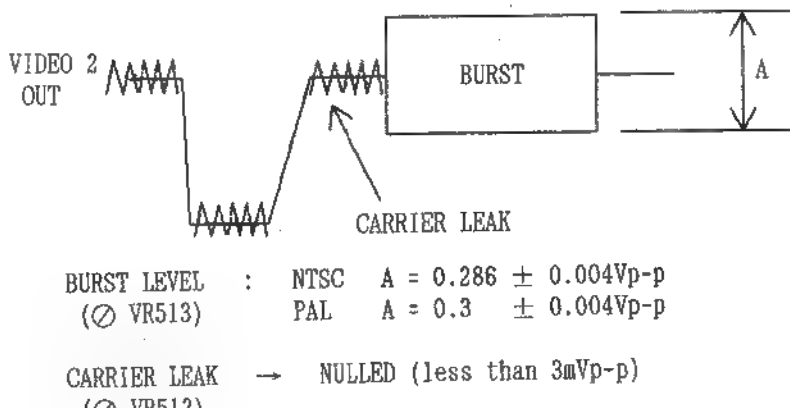


BURST POSITION :  $A = 5.6 \pm 0.1 \mu \text{sec.}$   
( $\phi$  VR510)

BURST WIDTH :  $B = 2.25 \pm 0.23 \mu \text{sec.}$   
( $\phi$  VR511)

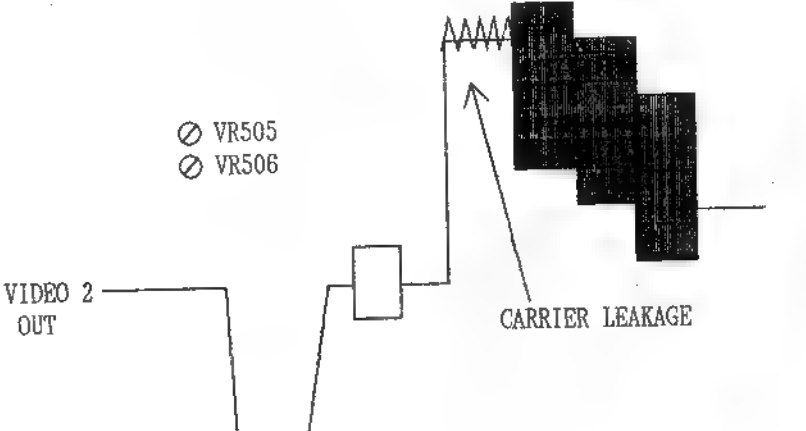
# 9-15. VIDEO BURST LEVEL ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                |
|--|----------------|-----------|--|--------------|---|
| VIDEO 2<br>OUT   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE<br><br>(with 75Ω<br>terminator)   | -----        | VR513 (V1. BURST. G)<br>VR512 (BURST BAL) |
| 1. Adjust VR513 so that the burst level<br>(A) is<br>NTSC $0.286 \pm 0.004V_{p-p}$<br>PAL $0.3 \pm 0.004V_{p-p}$<br><br>2. Adjust VR512 so that the carrier leak<br>is nulled. |                |           |  <p>             BURST LEVEL : NTSC <math>A = 0.286 \pm 0.004V_{p-p}</math><br/>             (⊙ VR513) PAL <math>A = 0.3 \pm 0.004V_{p-p}</math><br/><br/>             CARRIER LEAK → NULLED (less than <math>3mV_{p-p}</math>)<br/>             (⊙ VR512)           </p> |              |   |

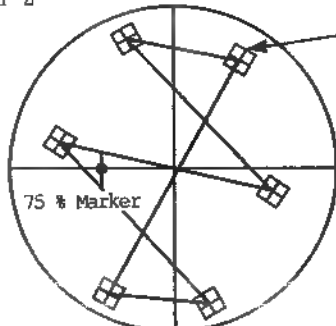
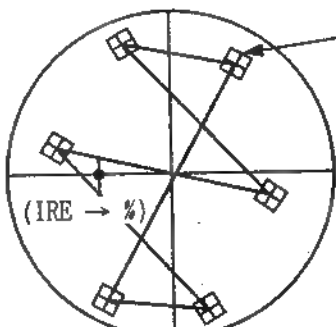
# 9-16. CARRIER LEAKAGE ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                       |
|--|------|--------------------------------|--|--------------|----------------------------------|
| VIDEO 2<br>OUT   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE<br><br>(with 75Ω<br>terminator) | -----        | VR505 (PB BAL)<br>VR506 (PR BAL) |
| 1. Adjust VR505 and VR506 so that the carrier leakage of the white portion is nulled.  |      |                                |  |              |                                  |
|  <p>             SPEC : CARRIER LEAKAGE IS LESS THAN <math>3mV_{p-p}</math> </p> |      |                                |  |              |                                  |
| 2. If it is not, check the C A/D PEDESTAL VOLTAGE ADJ. (9-3)   |      |                                |  |              |                                  |

# 9-17. VIDEO OUTPUT VECTOR ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT  |
|--|------|--|--|--------------|---|
| VIDEO 2<br>OUT   | PLAY | ALIGNMENT<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | VECTOR SCOPE<br>(or TEK 1750)  | -----        | VR209 (UV BAL)<br>VR507 (VIDEO. CG)<br>VR515 (HUE. OPS1)<br>VR516 (QUAD)<br>VR517 (HUE. OPS2) |
| Step 1.<br>MACHINE CONDITION   |      |  | Refer to SET UP Conditions at the beginning<br>of this SECTION (ENCODER - W2).   |              |   |
| Step 2. [ NTSC ]<br>SET TO<br>1. VR517 : CENTER POSITION<br>(FOR USER VR)<br>2. Adjust VR209/VR507/VR515/VR516 so that<br>each of the vectors phase and levels<br>are in the 2% Box of the vector scope. |      |  | VIDEO OUT 2<br> <p>Inner Box Indicate<br/><math>\pm 2.5^\circ</math><br/><math>\pm 2.5</math> IRE</p> <p>75 % Marker</p> <p>VR209<br/>VR507<br/>VR515<br/>VR516</p> <p>[ NTSC ]</p> |              |   |
| Step 2. [ PAL ]<br>1. VR517 : CENTER POSITION<br>(FOR USER VR)<br>2. Adjust VR209/VR507/VR515/VR516 so<br>that each of the vectors phase and<br>levels are in the 2% Box of the<br>vector scope.         |      |  | VIDEO OUT 2<br> <p>Inner Box Indicate<br/><math>\pm 2.5^\circ</math><br/><math>\pm 2.5</math> IRE</p> <p>(IRE → %)</p> <p>[ PAL ]</p>  |              |   |

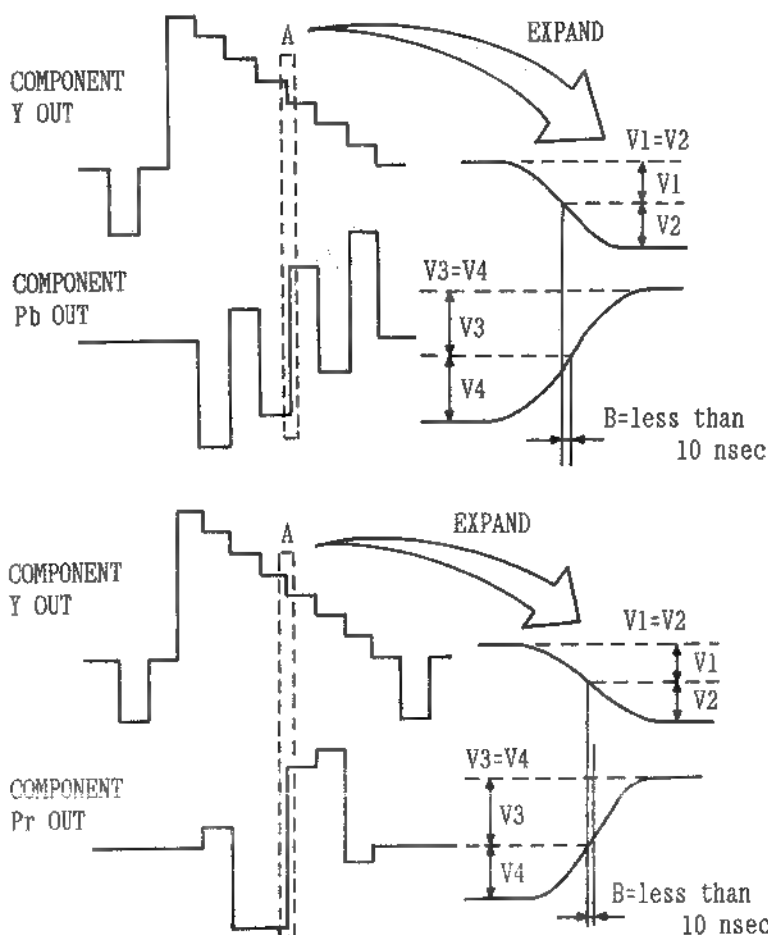
# 9-18. COMPONENT Y/C TIMING ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT                   | MODE | TAPE USED                      | M.EQ.                        | INPUT SIGNAL | ADJUSTMENT   |
|------------------------------|------|--------------------------------|------------------------------|--------------|--|
| COMPONENT<br>Y OUT<br>Pr OUT | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE<br>OR<br>W.F.M. | -----        | VR213 (Y/Pr)<br>Y/C TIMING PRESET VR<br>(on Front Sub Panel)<br>Y/C TIMING MANUAL VR<br>(on Front Sub Panel) |

Step 1.

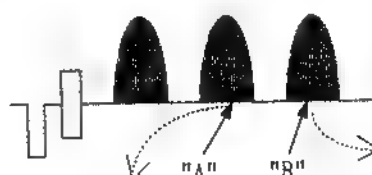
1. Set the Y/C DELAY SW on the Front Sub Panel to MANUAL mode.
2. SCOPE CH1 : COMPONENT Y OUT (Ref.)  
SCOPE CH2 : COMPONENT Pb OUT
3. Adjust VR211 so that center of range which be able to be control by Y/C DELAY MANUAL VR, is Y/Pb timing 0sec. point.
4. Set the Y/C DELAY SW on the Front Sub Panel to PRESET mode.
5. Adjust the Y/C DELAY PRESET VR on the Front Sub Panel so that Y/Pb timing is  $0 \pm 10 \text{ nsec}$ .
6. SCOPE CH1 : COMPONENT Y OUT (Ref.)  
SCOPE CH2 : COMPONENT Pr OUT
7. Adjust VR213 so that Y/Pr timing is  $0 \pm 10 \text{ nsec}$ .



# 9-19. COMPOSITE Y/C TIMING ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

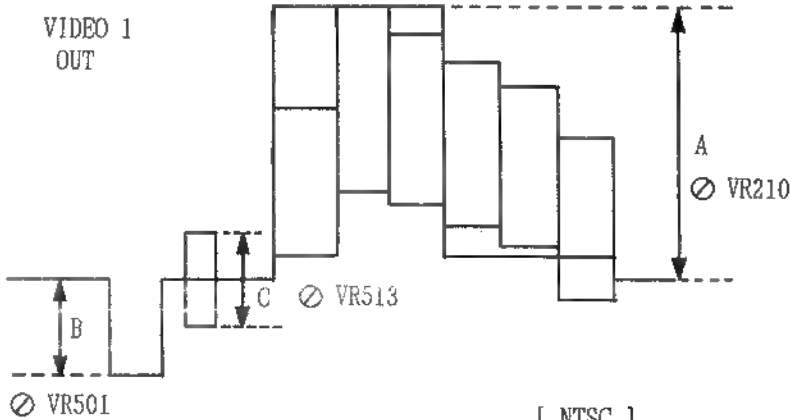
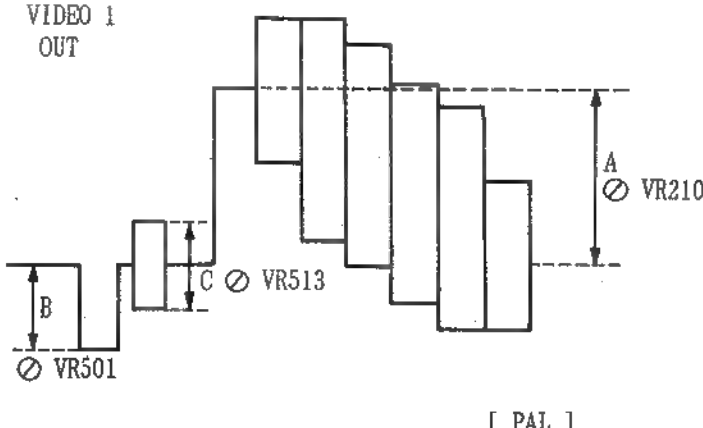
| TEST POINT  | MODE | TAPE USED                               | M.EQ.            | INPUT SIGNAL | ADJUSTMENT                 |
|-------------|------|---|------------------|--------------|----------------------------|
| VIDEO 2 OUT | PLAY | ALIGNMENT TAPE PULSE & BAR (Y/C TIMING) | WAVEFORM MONITOR | -----        | VR207 (Y/U)<br>VR208 (Y/V) |



Adjust VR207 so the "B" portion is flat  
Adjust VR208 so the "A" portion is flat

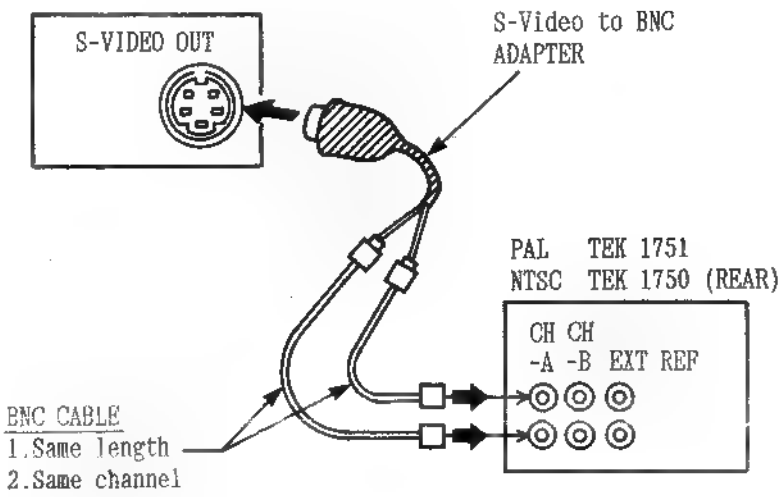
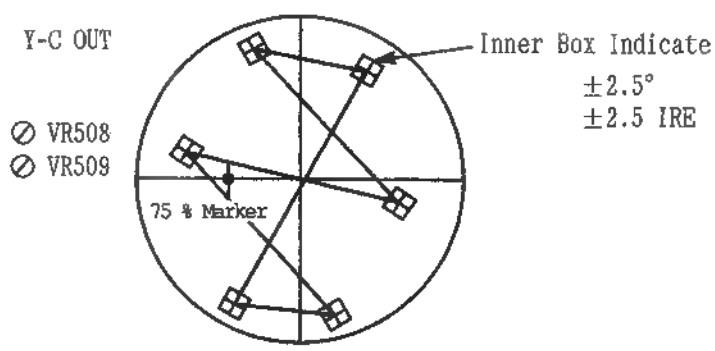
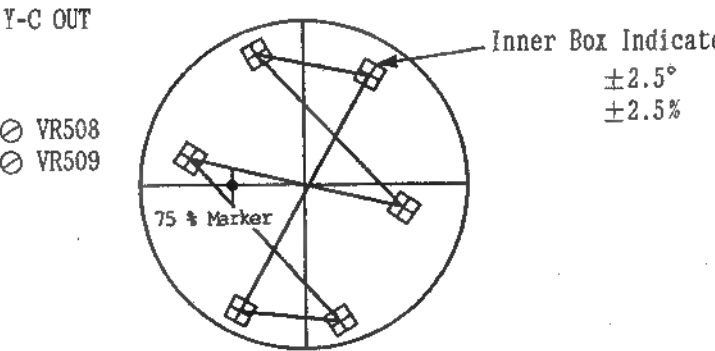
# 9-20. VIDEO 1 OUTPUT LEVEL CONFIRMATION (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT  | MODE | TAPE USED  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT  |
|---|------|--|--|--------------|---|
| VIDEO 1<br>OUT  | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | OSCILLOSCOPE<br><br>(with 75Ω<br>termination)  | -----        | VR210 (SYNC G.)<br>VR501 (VIDEO G.)<br>VR513 (BURST G.) |
| Step 1.<br>MACHINE CONDITION  |      |  | Refer to SET UP Conditions at the beginning<br>of this SECTION (ENCODER - W2).       |              |   |
| Step 2. [ NTSC ]<br><br>1. Confirm the following specifications.<br><br>[ NTSC ]<br>1) VIDEO LEVEL (A) = $0.714 \pm 0.01\text{Vp-p}$<br>2) SYNC LEVEL (B) = $0.286 \pm 0.004\text{Vp-p}$<br>3) BURST LEVEL (C) = $0.286 \pm 0.004\text{Vp-p}$<br><br>2. If it is not within specification,<br>readjust VR210, VR501, VR513 (9-6<br>COMPOSITE SYNC LEVEL, 9-13 VIDEO 2<br>OUTPUT LEVEL, 9-15 VIDEO BURST LEVEL.) |      |  |   |              |   |
| Step 2. [ PAL ]<br><br>1. Confirm the following specifications.<br><br>[ PAL ]<br>1) VIDEO LEVEL (A) = $0.7 \pm 0.01\text{Vp-p}$<br>2) SYNC LEVEL (B) = $0.3 \pm 0.006\text{Vp-p}$<br>3) BURST LEVEL (C) = $0.3 \pm 0.004\text{Vp-p}$<br><br>2. If it is not within specification,<br>readjust VR210, VR501, VR513 (9-6<br>COMPOSITE SYNC LEVEL, 9-13 VIDEO 2<br>OUTPUT LEVEL, 9-15 VIDEO BURST LEVEL.)         |      |  |  |              |   |

**9-21. Y/C OUT VECTOR ADJUSTMENT (1)**  
(FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                               |
|--|------|--|--|--------------|--|
| Y/C OUT<br>(S-VIDEO)   | PLAY | ALIGNMENT<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | VECTOR SCOPE   | -----        | VR508 (Y/C C. PHASE)<br>VR509 (Y/C C. G) |
| <p>Step 1. [ CONNECTION ]</p> <ol style="list-style-type: none"> <li>1. Please use S-Video to BNC Conversion CONNECTOR (4P→BNC).</li> <li>2. Connect the vector scope to Y &amp; C Output through the conversion cable as shown in figure.</li> </ol>  |      |  |                   |              |  |
| <p>Step 2. [ NTSC ]</p> <ol style="list-style-type: none"> <li>1. Adjust VR508 and VR509 so that the each vector is within the 2% box on the vector scope.</li> </ol>  |      |  |  <p>[ NTSC ]</p> |              |  |
| <p>Step 2. [ PAL ]</p> <ol style="list-style-type: none"> <li>1. Connect the vector scope to signal generator, and set the vector scope the burst level 100%</li> <li>2. Reconnect the vector scope to S-VIDEO OUT on the Rear Panel. (Refer to Step 1.)</li> <li>3. Adjust VR508 and VR509 so that the each vector is within the 2% box on the vector scope.</li> </ol> |      |  |  <p>[ PAL ]</p>  |              |  |

**9-22. Y/C OUT VECTOR ADJUSTMENT (2)**  
(FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT  | MODE | TAPE USED  | M.EQ.                                    | INPUT SIGNAL | ADJUSTMENT           |
|---|------|--|--|--------------|----------------------|
| Y/C OUT   | PLAY | ALIGNMENT<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | OSCILLOSCOPE<br>(with 75Ω<br>terminator) | -----        | VR514 (Y/C BURST. G) |
| NTSC : BURST LEVEL = $0.286 \pm 0.004V_{p-p}$<br>PAL : BURST LEVEL = $0.3 \pm 0.004V_{p-p}$ |      |  |  |              |                      |

**9-23. VIDEO OUTPUT FREQUENCY RESPONSE ADJUSTMENT**  
(FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT         |
|--|------|----------------------------|---|--------------|--------------------|
| TP502<br>TP 1  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE  | -----        | VC501 (VIDEO F.R.) |
| Step 1.<br><br>MACHINE CONDITION   |      |                            | 1. Refer to SET UP Conditions at the beginning of this SECTION (ENCODER - W2).<br>2. Connect a jumper wire between F15A (card edge) and GND to cut chroma signal. |              |                    |
| Step 2. [ NTSC ]<br><br>1. SCOPE CH1 : TP 1 (Ref.)<br>SCOPE CH2 : TP502<br><br>2. Adjust VC501 so that the frequency response at TP502 is the same as it at TP1. |      |                            | ⓪ VC501<br><br>SPECIFICATION [ NTSC ]<br>TP502 = TP1<br>Frequency Characteristic is same.<br>(0.5MHz = 100%)<br>(4MHz = $100\% \pm 2\%$ )                         |              |                    |
| Step 2. [ PAL ]<br><br>1. SCOPE CH1 : TP 1 (Ref.)<br>SCOPE CH2 : TP502<br><br>2. Adjust VC501 so that the frequency response at TP502 is the same as it at TP1.  |      |                            | ⓪ VC501<br><br>SPECIFICATION [ PAL ]<br>TP502 = TP1<br>Frequency Characteristic is same.<br>(0.5MHz = 100%)<br>(4MHz = $100\% \pm 3\%$ )                          |              |                    |

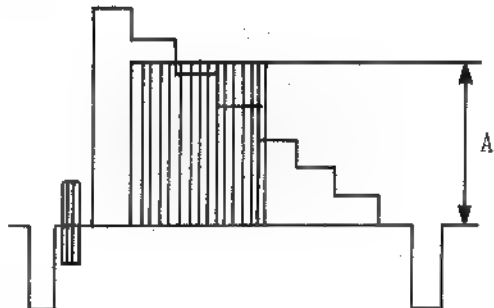
# 9-24. Y OUTPUT FREQUENCY RESPONSE ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT           |
|--|------|----------------------------|--|--------------|----------------------|
| TP202<br>TP 1  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | OSCILLOSCOPE   | -----        | VC201 (Y FREQ. RES.) |
| Step 1. [ NTSC ]<br><br>1. SCOPE CH1 : TP 1 (Ref.)<br>SCOPE CH2 : TP202<br><br>2. Adjust VC201 so that the frequency response at TP502 is the same as it at TP1. |      |                            | ⊗ VC201<br><br>SPECIFICATION [ NTSC ]<br>TP202 = TP1<br>Frequency Characteristic is same.<br>(0.5MHz = 100%)<br>(4MHz = 100% ± 2%) |              |                      |
| Step 1. [ PAL ]<br><br>1. SCOPE CH1 : TP 1 (Ref.)<br>SCOPE CH2 : TP202<br><br>2. Adjust VC201 so that the frequency response at TP502 is the same as it at TP1.  |      |                            | ⊗ VC201<br><br>SPECIFICATION [ PAL ]<br>TP202 = TP1<br>Frequency Characteristic is same.<br>(0.5MHz = 100%)<br>(4MHz = 100% ± 3%)  |              |                      |

# 9-25. SUPER IMPOSE CHARACTER LEVEL ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT          |
|--|------|--------------------------------|--|--------------|---------------------|
| TP503  | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE<br>(with 75Ω terminator)  | -----        | VR504 (V3 BLK. DC.) |
| Step 1.<br><br>1. SCOPE : TP503<br><br>2. Check that the Character Level "A" is $1.14 \pm 0.1V_{p-p}$ as shown.<br><br>3. Adjust VR504 so that the DC level of Character is same as DC level of H. Blanking. |      |                                | TP503<br>⊗ VR504<br> |              |                     |

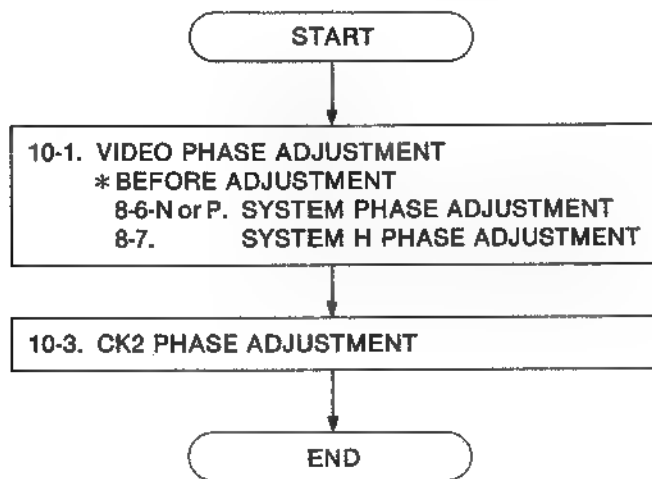


## 10. TBC & SYNC GEN (W1) BOARD (2/2)

### TBC & SYNC GEN. SECTION (2/2) (W1) FLOWCHART FOR AU-65

#### \* BEFORE ADJUSTMENT

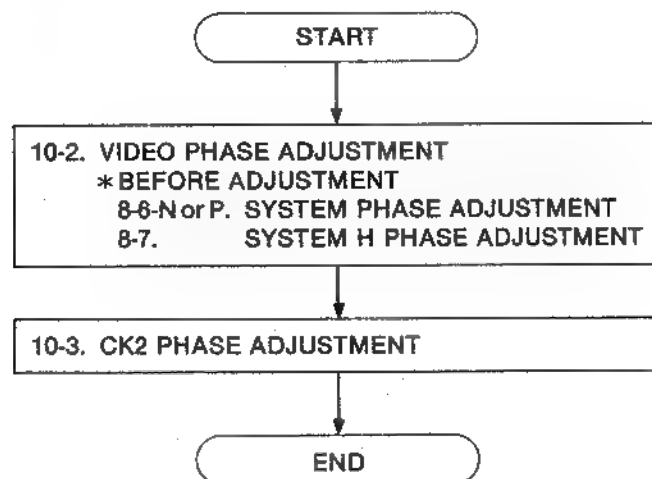
The adjustment with this comment is necessary to adjust after the following adjustments are completed.



### TBC & SYNC GEN. SECTION (2/2) (W1) FLOWCHART FOR AU-63 AND AU-62

#### \* BEFORE ADJUSTMENT

The adjustment with this comment is necessary to adjust after the following adjustments are completed.



# 10. TBC & SYNC GEN (W1) BOARD (2/2)

## 10-1. VIDEO PHASE ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W1 TBC & SYNC GEN )

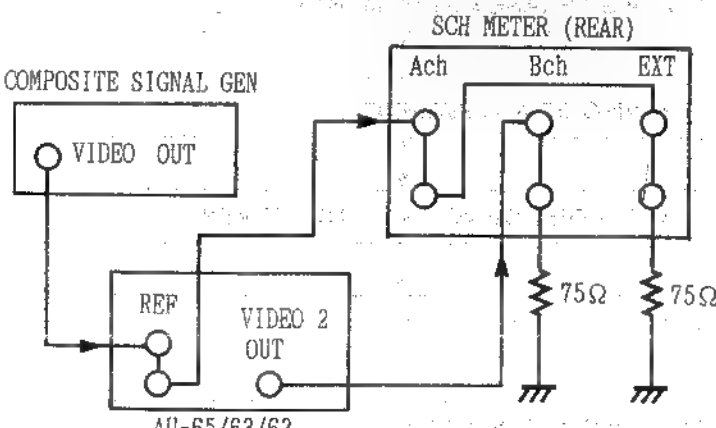
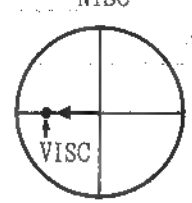
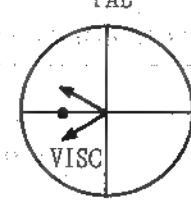
| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                                       |
|---|----------------|-----------|---|--------------|--|
| VIDEO 2 OUT   | E-E<br>(EJECT) | -----     | SCH<br>METER<br>(NTSC TEK 1750)<br>(PAL TEK 1751) | LINE IN      | SW203 (V. PHASE COARSE)<br>VR207 (V. PHASE FINE) |
| <p>Step 1.</p> <p>CONNECTION METHOD</p> <p>SCH METER TRIGGER : EXT</p>  |                |           |   |              |  |
| <p>Step 2.</p> <p>1. Confirm the SYSTEM PHASE Adjustments in TBC &amp; SYNC GEN (W1) 1/2 section.</p>   |                |           |   |              |  |
| <p>Step 3.</p> <p>1. Confirm that the VIDEO phase of VIDEO 2 OUTPUT (B ch of WFM Monitor) is same as VIDEO phase of REF. VIDEO (A ch of WFM Monitor).</p> <p>2. If it is not, adjust SW203 and VR207 so that the VIDEO phase of VIDEO 2 OUTPUT (Bch of WFM Monitor) and the REF. VIDEO (A ch of WFM Monitor) are the same phase as shown.</p> <p>Note:<br/>Don't check (A) portion, because this edge is made by blanking circuit.<br/>So, check other portion.</p> |                |           |   |              |  |

## 10-2. VIDEO PHASE ADJUSTMENT (FOR AU-63/62 NTSC & PAL)

( W1 TBC & SYNC GEN )

| TEST POINT  | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL                         | ADJUSTMENT                                       |
|---|------|--------------------------------|---|--------------------------------------|--|
| VIDEO 2<br>OUT  | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | SCH<br>METER<br>(NTSC TEK 1750)<br>(PAL TEK 1751) | SCH ADJ.<br>PIXTURE<br>TO<br>REF. IN | SW203 (V. PHASE COARSE)<br>VR207 (V. PHASE FINE) |
| <p>Step 1.</p> <p>CONNECTION METHOD</p> <p>SCH METER TRIGGER : EXT</p>  |      |                                |   |                                      |  |
| <p>Step 2.</p> <p>1. Confirm the SYSTEM PHASE Adjustments<br/>in TBC &amp; SYNC GEN (W1) 1/2 section.</p>   |      |                                |   |                                      |  |
| <p>Step 3.</p> <p>1. Confirm that the VIDEO phase of VIDEO 2<br/>OUTPUT (B ch of WFM Monitor) is same as<br/>VIDEO phase of REF. VIDEO (A ch of WFM<br/>Monitor).</p> <p>2. If it is not, adjust SW203 and VR207 so<br/>that the VIDEO phase of VIDEO 2 OUTPUT<br/>(Bch of WFM Monitor) and the REF. VIDEO<br/>(A ch of WFM Monitor) are the same<br/>phase as shown.</p> <p>Note:</p> <p>1. Don't check (A) portion, because<br/>this edge is made by blacking circuit.<br/>So, check other portion.</p> <p>2. If the VIDEO phase is not same<br/>perfectly, adjust the average is<br/>the same.</p> |      |                                |   |                                      |  |

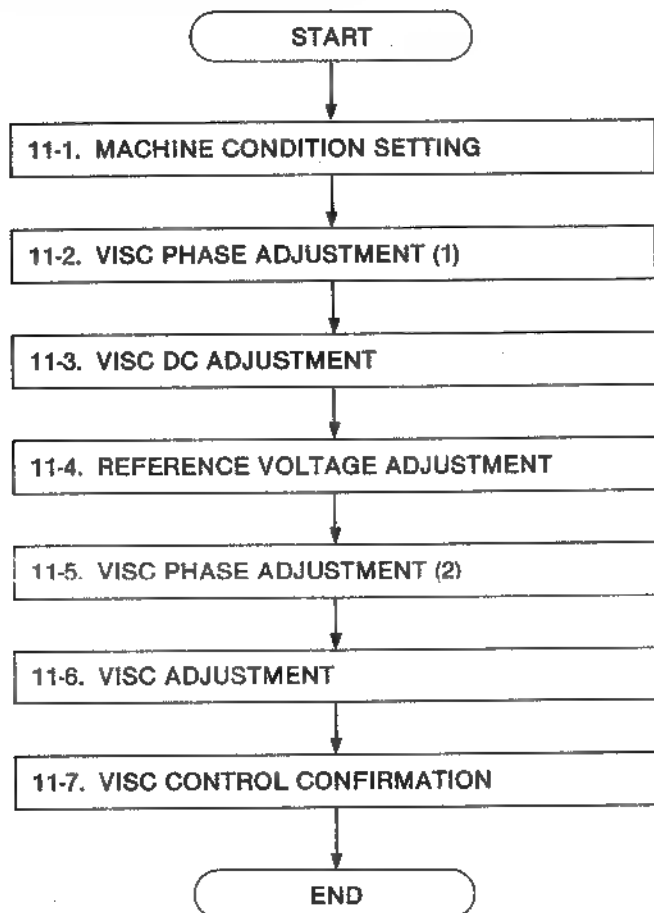
# 10-3. CK 2 PHASE ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL) ( W1. TBC & SYNC GEN )

| TEST POINT   | MODE | TAPE USED           | M.EQ.   | INPUT SIGNAL | ADJUSTMENT        |
|--|------|---------------------|---|--------------|-------------------|
| VIDEO 2 OUT  | PLAY | ALIGNMENT TAPE VISC | VECTOR SCOPE  | -----        | VR207 (CK2 PHASE) |
| Step 1.<br>MACHINE CONDITION   |      |                     | SW7 (on W1) : OFF   |              |                   |
| Step 2.<br><br>CONNECTION METHOD<br><br>SCH METER TRIGGER : EXT  |      |                     |    |              |                   |
| Step 3.<br><br>1. Adjust VR207 so that the VISC signal phase is center of Burst axis. ( $0^\circ \pm 2^\circ$ )<br><br>2. SW7 : ON |      |                     | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>NTSC</p>  </div> <div style="text-align: center;"> <p>PAL</p>  </div> </div> |              |                   |

## 11. ENCODER (W2) BOARD (2/2)

### — VISC CONTROL SECTION (PAL ONLY) —

VISC CONTROL SECTION (2/2) (W2) FLOWCHART FOR AU-65, AU-63  
AND AU-62, PAL MODEL



\* This Section is PAL only. This Section have no connection with NTSC.

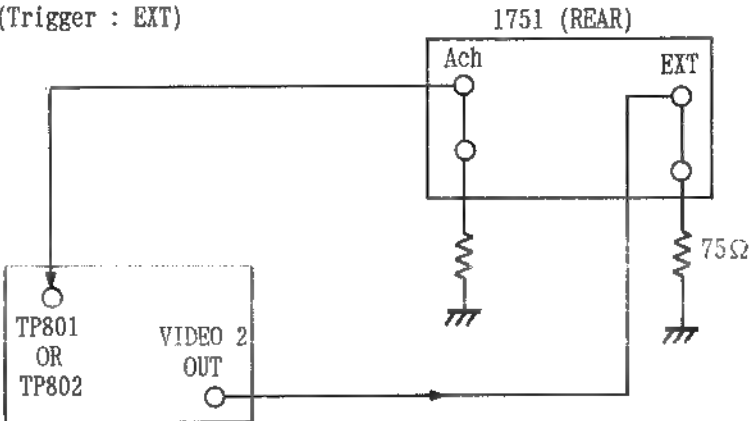
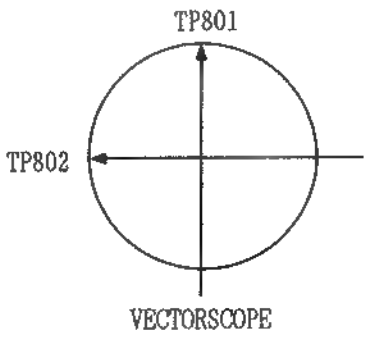
11. ENCODER (W2 BOARD (2/2))  
 — VISC CONTROL SECTION (PAL ONLY) —

11-1. MACHINE CONDITION SETTING  
 (FOR AU-65/63/62 PAL)

|  |       |                 |
|--|-------|-----------------|
| 1. CF SELECT SW ( on Front Sub Panel )               | ----- | 8F              |
| 2. TAPE/EE SELECT ( on Pull Out Drawer )             | ----- | EE              |
| 3. HEAD SELECT ( on Pull Out Drawer )                | ----- | R/P             |
| 4. SYNC SELECT SW ( on Front Sub Panel )             | ----- | AUTO            |
| 5. COMPONENT Y/Pr/Pb LEVEL VR ( on Pull Out Drawer ) | ---   | DETENT POSITION |
| 6. VIDEO LEVEL VR                                    | ----- | DETENT POSITION |
| 7. SET UP LEVEL VR                                   | ----- | DETENT POSITION |
| 8. CHROMA LEVEL VR                                   | ----- | DETENT POSITION |
| 9. HUE VR  | ----- | DETENT POSITION |

11-2. VISC PHASE ADJUSTMENT (1)  
(FOR AU-65/63/62 PAL)

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                 | M.EQ.  | INPUT SIGNAL | ADJUSTMENT             |
|--|------|---------------------------|--|--------------|------------------------|
| TP801<br>TP802   | PLAY | ALIGNMENT<br>TAPE<br>VISC | VECTORSCOPE  | -----        | VR800 (VISC $\phi 1$ ) |
| Step 1.<br>MACHINE CONDITION   |      |                           | SW800 (on W2) : OFF<br>SW801 (on W2) : OFF   |              |                        |
| Step 2.<br><br>CONNECTION METHOD   |      |                           | VECTORSCOPE<br>(Trigger : EXT)  |              |                        |
| Step 3.<br><br>1. Connect the vectorscope to TP801 and set the vectorscope to 12 o'clock position.<br><br>2. Connect the vectorscope to TP802 and adjust VR800 so that the phase at TP802 comes to 9 o'clock position. |      |                           | VR800                          |              |                        |

### 11-3. VISC DC ADJUSTMENT (FOR AU-65/63/62 PAL) (W2 ENCODER)

| TEST POINT  | MODE | TAPE USED                 | M.EQ.  | INPUT SIGNAL | ADJUSTMENT       |
|---|------|---------------------------|--|--------------|------------------|
| TP803   | PLAY | ALIGNMENT<br>TAPE<br>VISC | OSCILLOSCOPE                                     | -----        | VR802 (VISC. DC) |
| Step 1.<br><br>MACHINE CONDITION  |      |                           | SW800 (on W2) : OFF<br>SW801 (on W2) : OFF       |              |                  |
| Step 2.<br><br>SCOPE : TP803<br><br>1. Adjust VR802 so that the reading of DC voltage is $0 \pm 0.005V$ . |      |                           | ⊗ VR802<br><br>SPECIFICATION : $0 \pm 0.005V$ DC |              |                  |

### 11-4. REFERENCE VOLTAGE ADJUSTMENT (FOR AU-65/63/62 PAL) (W2 ENCODER)

| TEST POINT  | MODE | TAPE USED                 | M.EQ.  | INPUT SIGNAL | ADJUSTMENT        |
|---|------|---------------------------|--|--------------|-------------------|
| SW801   | PLAY | ALIGNMENT<br>TAPE<br>VISC | OSCILLOSCOPE<br>AND<br>VECTORSCOPE               | -----        | VR803 (REF. VOLT) |
| Step 1.<br><br>MACHINE CONDITION  |      |                           | SW800 (on W2) : OFF                              |              |                   |
| Step 2.<br><br>1. Adjust VR803 so that the voltage in difference between leads of SW801 becomes $0 \pm 0.005V$ .<br>2. Confirm that the phase of VISC is not changed even if the SW801 is on and off. |      |                           | ⊗ VR803<br><br>SPECIFICATION : $0 \pm 0.005V$ DC |              |                   |



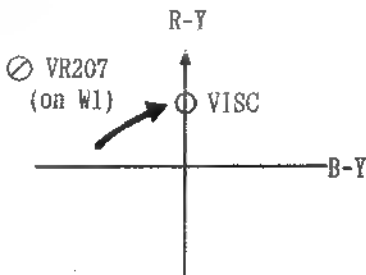
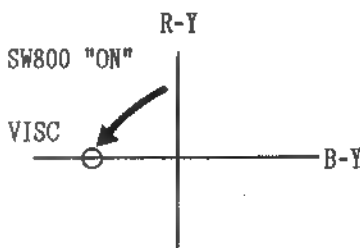
# 11-5. VISC PHASE ADJUSTMENT (2) (FOR AU-65/63/62 PAL)

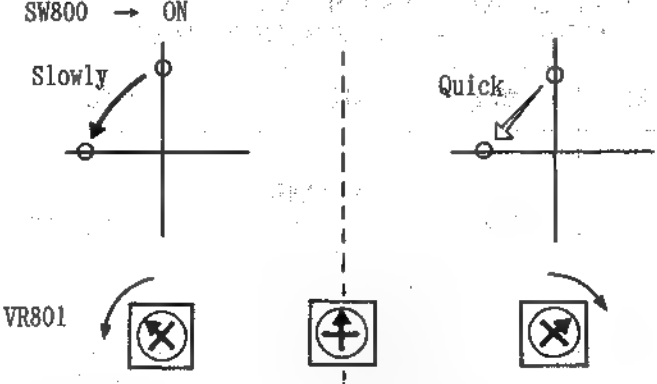
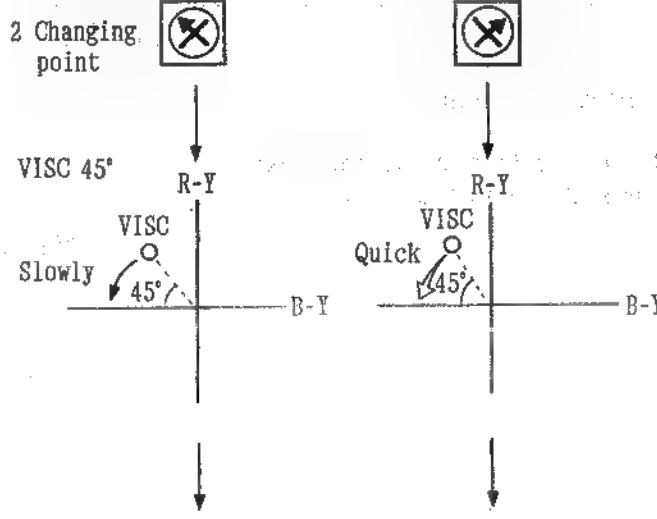
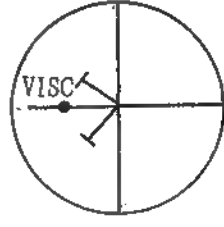
( W2 ENCODER )

| TEST POINT  | MODE | TAPE USED                 | M.EQ.        | INPUT SIGNAL | ADJUSTMENT             |
|-------------|------|---------------------------|--------------|--------------|------------------------|
| VIDEO 2 OUT | PLAY | ALIGNMENT<br>TAPE<br>VISC | VECTOR SCOPE | -----        | VR801 (VISC. $\phi$ 2) |

## Note:

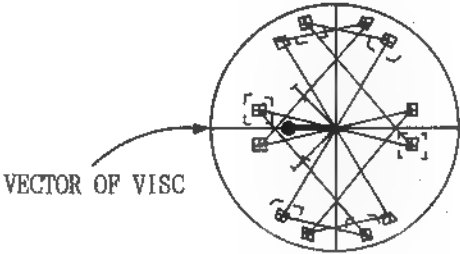
Confirm the Adjustment of W1 and W2 (1/2), completeness.

|   |   |
|---|---|
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   | <p>1. Refer to Machine Condition at the beginning of this section. (W2-ENCODER 2/2)</p> <p>2. SW800 (on W2) → OFF<br/> SW801 (on W2) → ON<br/> SW 7 (on W1) → OFF</p>   |
| <p>Step 2.</p> <p>1. Check and mark VR207 on the W1 P.C.Board, and set so that the VISC phase is on the R-Y axis upper portion.</p>   |    |
| <p>Step 3.</p> <p>1. Observe the vector scope the VISC phase is pulled in the horizontal axis between the burst when SW800 is "ON" mode.</p> <p>2. Check the moving speed of VISC with SW800 "ON".<br/> It has 2 pattern.</p> |  <p>VISC MOVING PATTERN</p> <p>(1) Pulling in VISC is slowly by Analog Control.<br/> (2) Pulling in VISC is quick by Digital Control.</p> |

|   |   |
|---|---|
| <p>Step 4.</p> <ol style="list-style-type: none"> <li>1. When VR801 is turned, changing point of moving pattern is appeared in range of VR801.</li> <li>2. Adjust VR801 so that the VR position is changing point of VISC moving pattern.</li> </ol> <p>Note:<br/>In this adjustment, repeat SW800 "ON" and "OFF".</p>  | <p>SW800 → ON</p>  <p>VR801</p> <p>Changing point</p>   |
| <p>Step 5.</p> <p>If the changing point of moving pattern is 2 in the range of VR801, adjust this procedure as following.</p> <ol style="list-style-type: none"> <li>1. Set the VR801 (on W2) changing points of moving pattern.</li> <li>2. Reset the VR207 on W1 P.C.Board so that VISC phase is 45°.</li> <li>3. VR801 have 2 changing points (A) and (B) at VISC 90° condition. When VISC is 45° and SW800 is "ON", one is pulled in U axis slowly but another is quick it.</li> <li>4. Adjustment position VR is changing point at VISC 90° and slowly pulling as VISC 45°.</li> </ol> | <p>VISC 90°</p> <p>2 Changing point</p>  <p>VISC 45°</p> <p>R-Y</p> <p>B-Y</p> <p>This is ADJ. point</p> <p>Not ADJ. point</p> |
| <p>Step 6.</p> <ol style="list-style-type: none"> <li>1. Set VR207 on W1 P.C.Board so that VISC phase is R-Y under side.</li> <li>2. Confirm the function of VISC control is same of Step 3, 4 and 5.</li> </ol>  |   |
| <p>Step 7.</p> <ol style="list-style-type: none"> <li>1. After adjustment, set SW800 "OFF" mode.</li> <li>2. Adjust VR207 on W1 P.C.Board so that the VISC signal is horizontal axis (B-Y) between the burst.</li> </ol>  | <p>SW800 → OFF</p> <p>VR207</p>   |
| <p>Step 8.</p> <ol style="list-style-type: none"> <li>1. Reset SW800 "ON" mode.</li> <li>2. Reset SW7 on W1 P.C.Board "ON" mode.</li> </ol>   | <p>SW800 (on W2) → ON</p> <p>SW 7 (on W1) → ON</p>  |

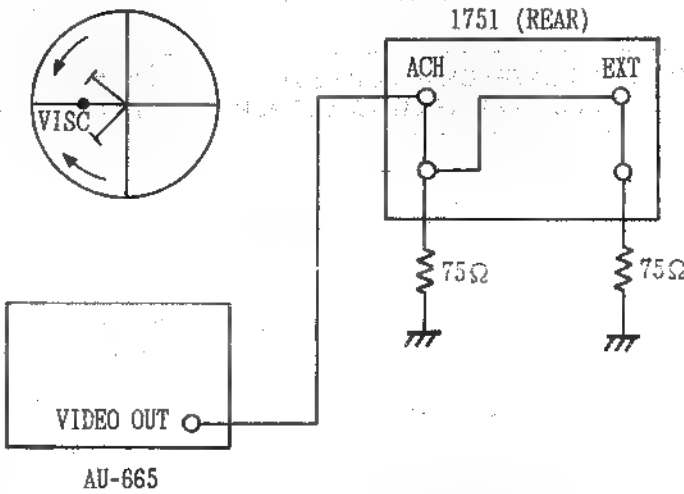
11-6. VISC ADJUSTMENT  
(FOR AU-65/63/62 PAL)

( W2 ENCODER )

| TEST POINT   | MODE | TAPE USED                 | M.EQ.  | INPUT SIGNAL | ADJUSTMENT       |
|--|------|---------------------------|--|--------------|------------------|
| VIDEO 2<br>OUT   | PLAY | ALIGNMENT<br>TAPE<br>VISC | VECTORSCOPE  | -----        | VR802 (VISC. DC) |
| Step 1.<br>MACHINE CONDITION   |      |                           | SW800 (on W2) : ON<br>SW801 (on W2) : ON   |              |                  |
| Step 2.<br><br>VECTORSCOPE : VIDEO 2 OUT<br><br>1. Adjust VR802 so that the vector aligns<br>with horizontal axis between the burst. |      |                           | <p>⊙ VR802</p>  <p>PHASE DIFFERENCE BETWEEN BURST AND VISC = <math>0 \pm 5^\circ</math></p> |              |                  |

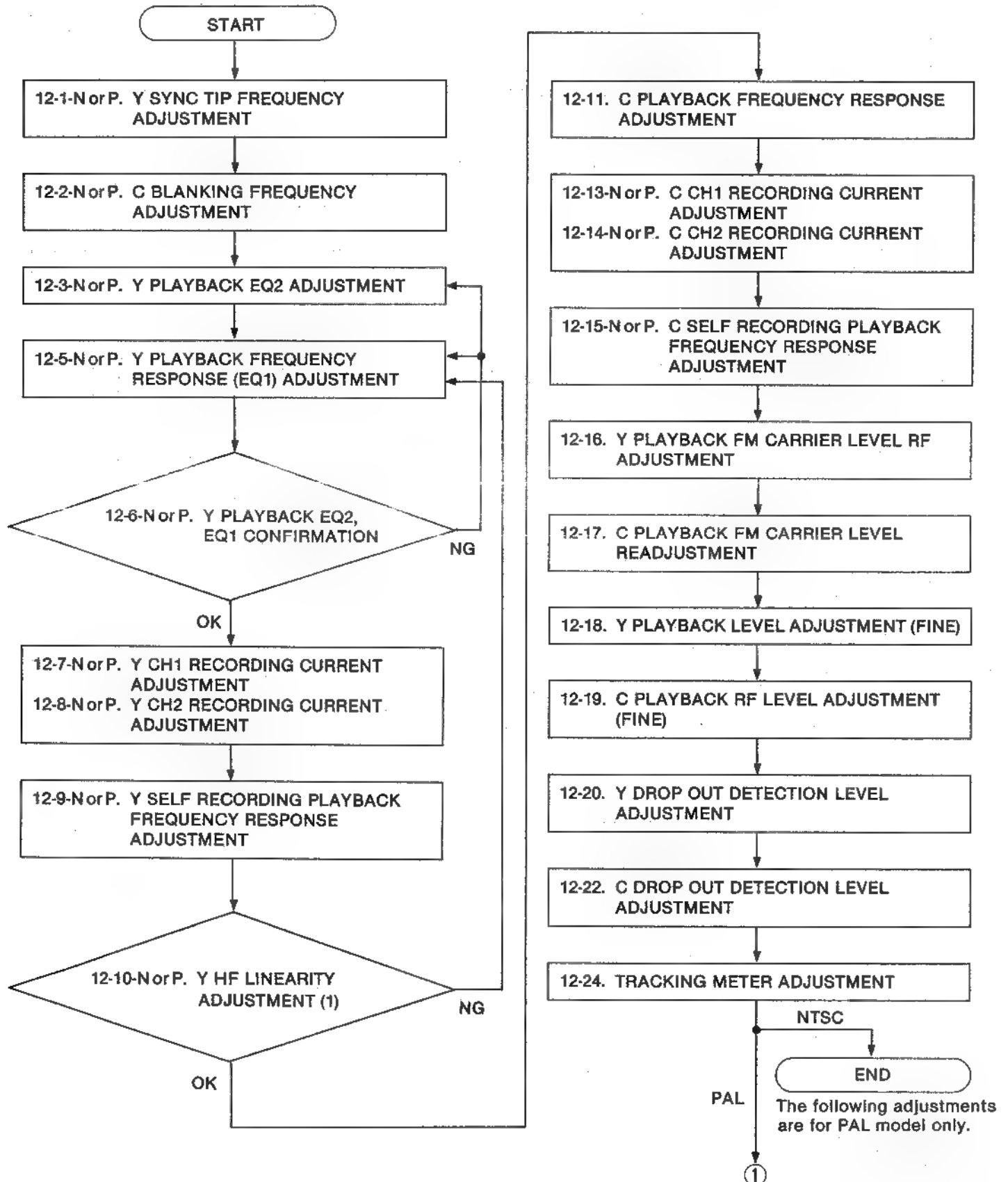
# 11-7. VISC CONTROL CONFIRMATION (FOR AU-65/63/62 PAL)

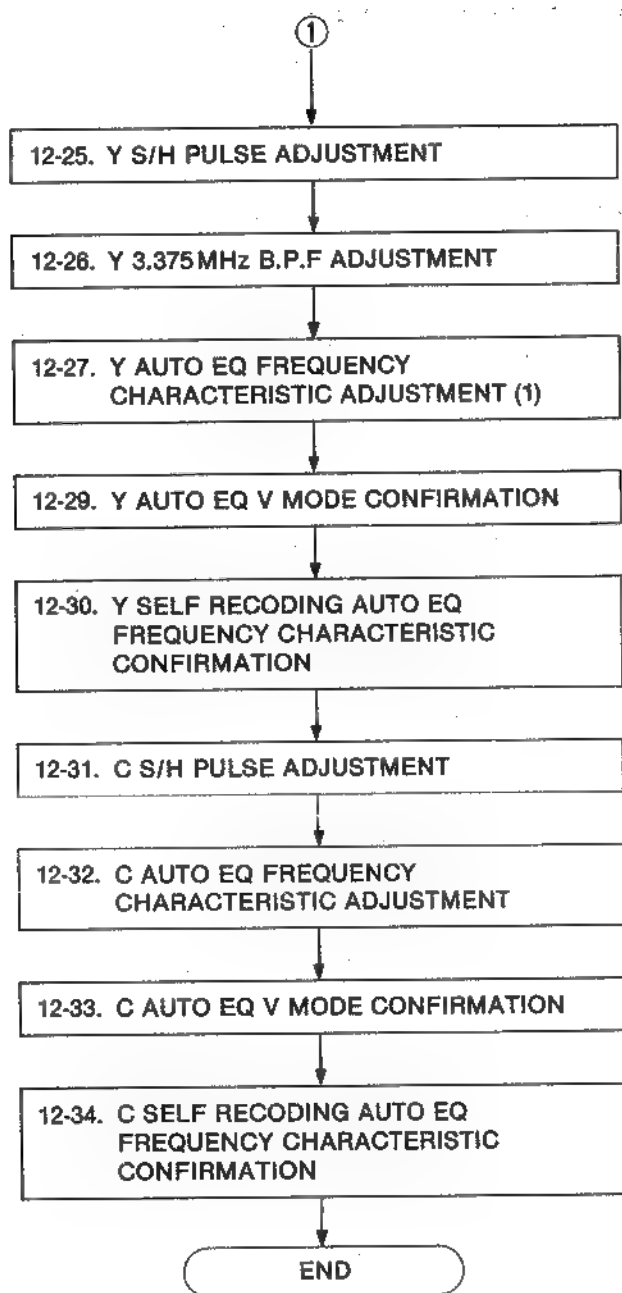
( W2 ENCODER )

| TEST POINT                   | MODE | TAPE USED                 | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                   |
|------------------------------|------|---------------------------|---|--------------|------------------------------|
| VIDEO 2<br>OUT               | PLAY | ALIGNMENT<br>TAPE<br>VISC | VECTOR<br>SCOPE   | -----        | VR206 (on W1)<br>(CK2 PHASE) |
| Step 1.<br>MACHINE CONDITION |      |                           | SW800 (on W2) : OFF → ON<br>SW801 (on W2) : OFF → ON  |              |                              |
| Step 2.<br>CONNECTION METHOD |      |                           |  <p>1. Set the SW800 to off and set the CK2 phase VR206 so that the VISC phase is -120° apart from burst phase.<br/>Then confirm that the VISC phase aligns to horizontal axis between the burst when turning SW800 on.</p> <p>2. Next, set the SW801 to off and set the CK2 phase VR206 so that the VISC phase is +120° apart from burst phase.<br/>Then confirm that the VISC phase aligns to horizontal axis between the burst when turning SW800 on.</p> <p>3. If it does not work correctly, repeat the CK2 phase adjustment (VR206).</p> |              |                              |

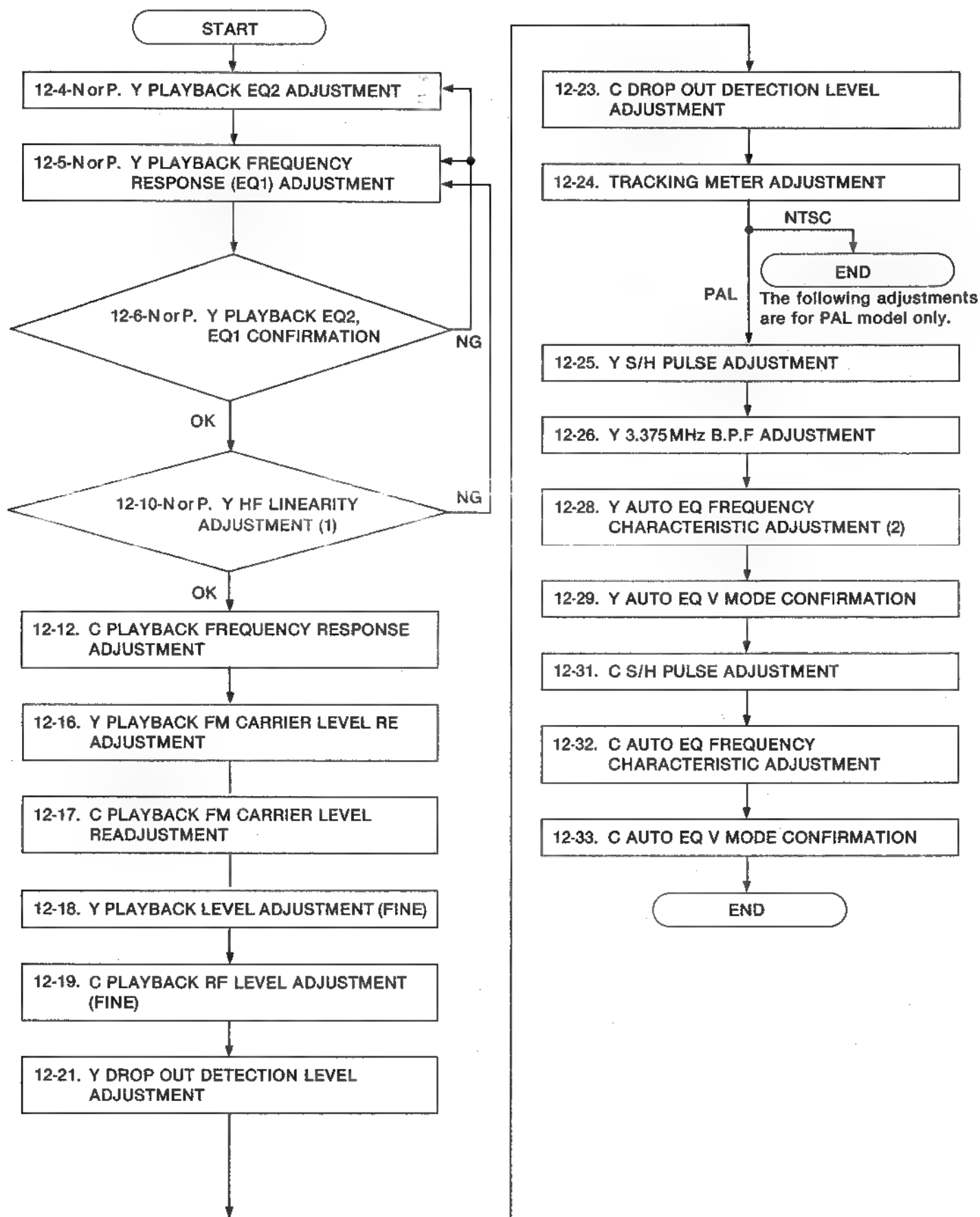
## 12. MODULATION & DEMODULATION (W3) BOARD (2/2)

### MODULATION & DEMODULATION SECTION (2/2) (W3) FLOWCHART FOR AU-65

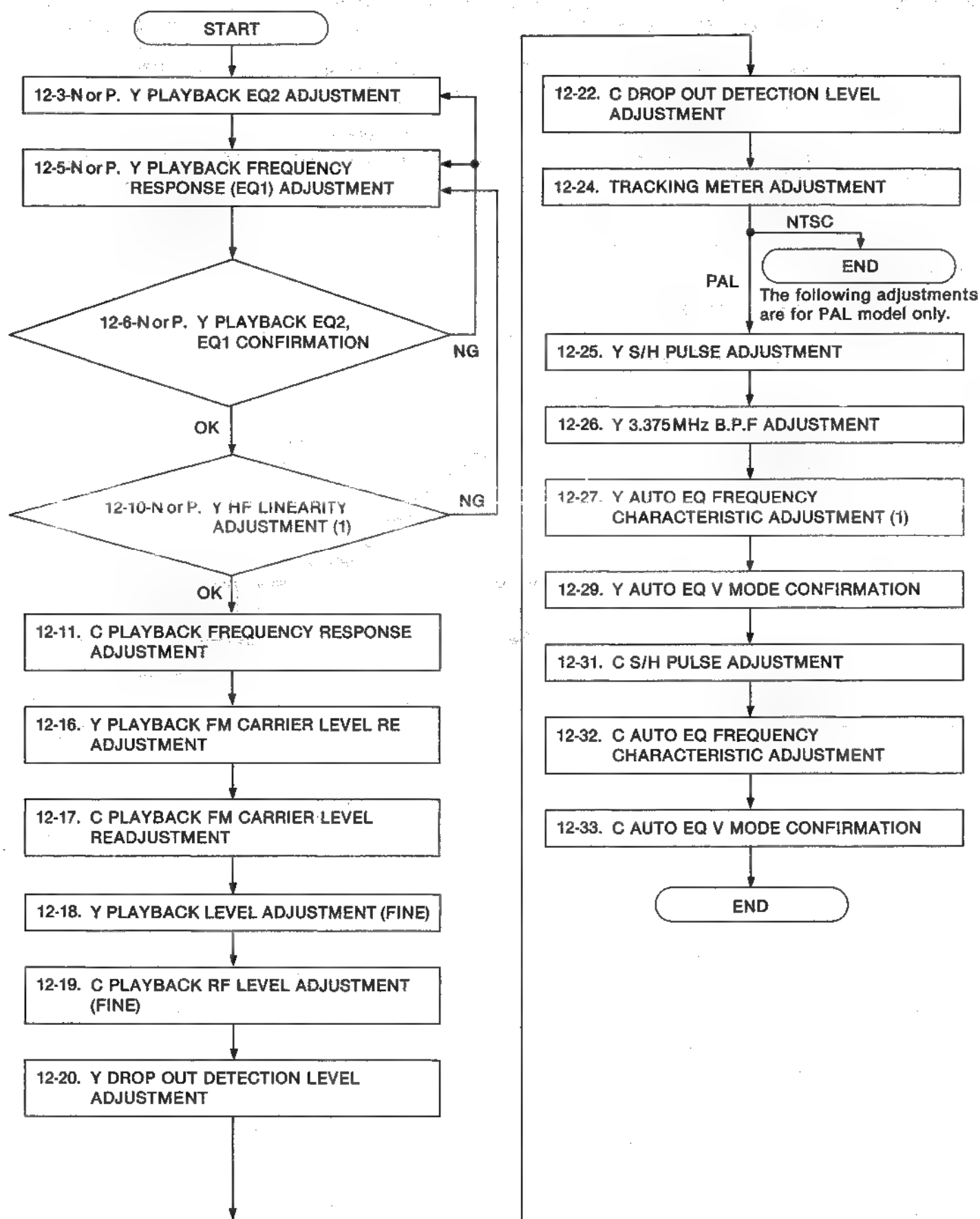




# MODULATION & DEMODULATION SECTION (2/2) (W3) FLOWCHART FOR AU-63



# MODULATION & DEMODULATION SECTION (2/2) (W3) FLOWCHART FOR AU-62

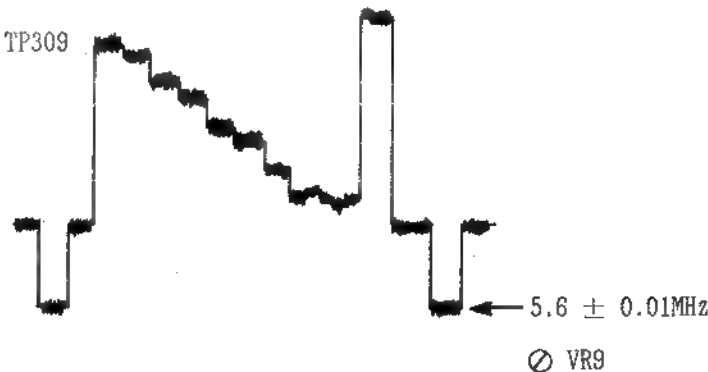




## 12. MODULATION & DEMODULATION (W3) BOARD (2/2)

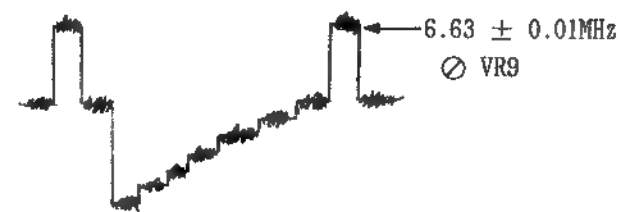
### 12-1-N. Y SYNC TIP FREQUENCY ADJUSTMENT (FOR AU-65 NTSC)

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL               | ADJUSTMENT             |
|---|----------------|-----------|--|----------------------------|------------------------|
| TP309<br>TP316  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>75% COLOR BAR | VR9 (Y SYNC TIP FREQ.) |
| Step 1.<br><br>1. Inject Sinewave Signal to TP316<br>2. Set Sinewave Generator Output<br>Frequency Setting To : |                |           | 5.6 MHz $\pm$ 0.01 MHz (0.2 ~ 0.4Vp-p)   |                            |                        |
| Step 2.<br><br>1. Adjust VR9 so that frequency beat noise is nullified at sync tip portion as shown in figure.  |                |           | <div style="text-align: center;">  <p>TP309</p> <p>5.6 <math>\pm</math> 0.01MHz</p> <p>⊗ VR9</p> </div> |                            |                        |

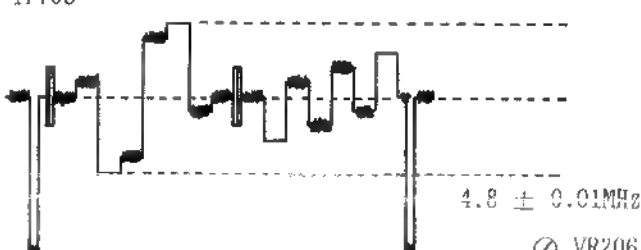
12-1-P. Y SYNC TIP FREQUENCY ADJUSTMENT  
(FOR AU-65 PAL)

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT             |
|--|----------------|-----------|--|------------------------|------------------------|
| TP309<br>TP316   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>COLOR BAR | VR9 (Y SYNC TIP FREQ.) |
| Step 1.<br><br>1. Inject Sinewave Signal to TP316<br>2. Set Sinewave Generator Output<br>Frequency Setting To :      |                |           | 6.63 MHz $\pm$ 0.01 MHz (0.2 ~ 0.4Vp-p)  |                        |                        |
| Step 2.<br><br>1. Adjust VR9 so that frequency beat noise<br>is nullified at sync tip portion as<br>shown in figure. |                |           | TP309<br><br> |                        |                        |

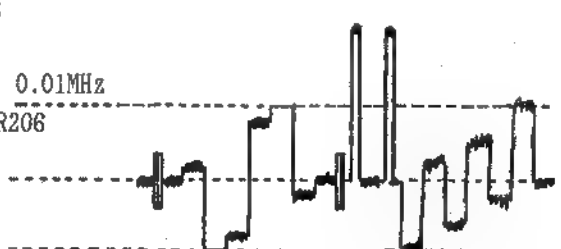
# 12-2-N. C BLANKING FREQUENCY ADJUSTMENT (FOR AU-65 NTSC)

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL            | ADJUSTMENT          |
|---|----------------|-----------|--|-------------------------|---------------------|
| TP706<br>TP711  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | Y/CTCM<br>75% COLOR BAR | VR206 (C BLK FREQ.) |
| Step 1.<br><br>1. Inject Sinewave Signal to TP711<br>2. Set Sinewave Generator Output<br>Frequency Setting To :                               |                |           | 4.8 MHz $\pm$ 0.01 MHz (0.2 ~0.4Vp-p)  |                         |                     |
| Step 2.<br><br>1. SCOPE : TP706<br>2. Adjust VR206 so that frequency beat noise is nullified at cyan portion of Pr signal as shown in figure. |                |           | TP706<br><br> |                         |                     |

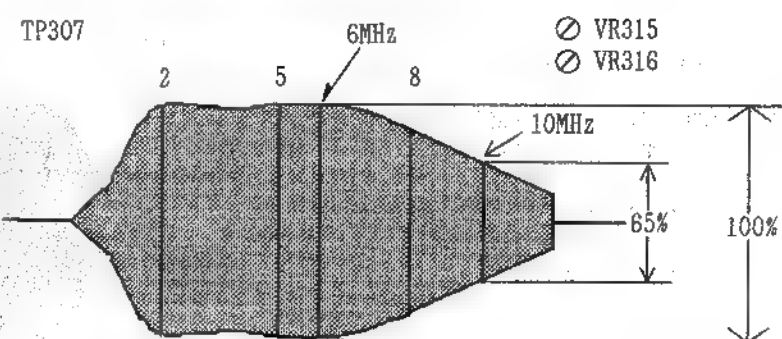
# 12-2-P. C BLANKING FREQUENCY ADJUSTMENT (FOR AU-65 PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL        | ADJUSTMENT          |
|---|----------------|-----------|---|---------------------|---------------------|
| TP706<br>TP711  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | Y/CTCM<br>COLOR BAR | VR206 (C BLK FREQ.) |
| Step 1.<br><br>1. Inject Sinewave Signal to TP711<br>2. Set Sinewave Generator Output<br>Frequency Setting To :                               |                |           | 5.4 MHz $\pm$ 0.01 MHz (0.2 ~0.4Vp-p)   |                     |                     |
| Step 2.<br><br>1. SCOPE : TP706<br>2. Adjust VR206 so that frequency beat noise is nullified at cyan portion of Pr signal as shown in figure. |                |           | TP706<br><br>5.4 $\pm$ 0.01MHz<br>⊗ VR206<br><br> |                     |                     |

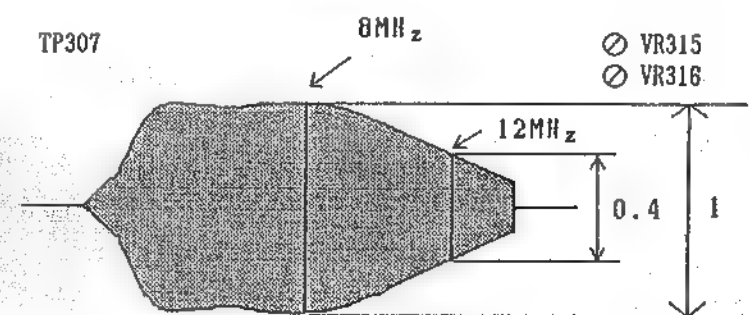
**12-3-N. Y PLAYBACK EQ2 ADJUSTMENT**  
(FOR AU-62/AU-65 NTSC)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                     | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|--|------|-------------------------------|---|--------------|--|
| TP307<br>F28-AB TERMINAL<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>RF SWEEP | OSCILLOSCOPE  | -----        | VR315<br>( Y PB EQ2 R/P1 )<br><br>VR316<br>( Y PB EQ2 R/P2 ) |
| 1. SW304 (on W3) : OFF<br><br>2. SCOPE CH1 : TP307<br>SCOPE CH2 : F28-AB TERMINAL<br>(Trigger)<br><br>3. Adjust VR315 and VR316 (CH1 and CH2)<br>RF signals For :<br>6MHz Level = 100%<br>10MHz Level = 65%<br><br>4. SW304 (on W3) : ON |      |                               | TP307  <div style="position: absolute; top: 270px; left: 800px;">             ⓪ VR315<br/>             ⓪ VR316           </div> <div style="position: absolute; top: 425px; left: 580px;">             6MHz : 10MHz = 100 : 65           </div> |              |  |

**12-3-P. Y PLAYBACK EQ2 ADJUSTMENT**  
(FOR AU-62/AU-65 PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                     | M.EQ.   | INPUT SIGNAL | ADJUSTMENT   |
|---|------|-------------------------------|---|--------------|--|
| TP307<br>F28-AB TERMINAL<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>RF SWEEP | OSCILLOSCOPE  | -----        | VR315<br>( Y PB EQ2 R/P1 )<br><br>VR316<br>( Y PB EQ2 R/P2 ) |
| 1. SW304 (on W3) : OFF<br><br>2. SCOPE CH1 : TP307<br>SCOPE CH2 : F28-AB TERMINAL<br>(Trigger)<br><br>3. Adjust VR315 and VR316 (CH1 and CH2)<br>RF signals For :<br>8MHz Level = 100%<br>12MHz Level = 40% ± 5%<br><br>4. SW304 (on W3) : ON |      |                               | TP307  <div style="position: absolute; top: 680px; left: 830px;">             ⓪ VR315<br/>             ⓪ VR316           </div> <div style="position: absolute; top: 830px; left: 560px;">             8MHz : 12MHz = 100 : 40 ± 5           </div> |              |  |

# 12-4-N. Y PLAYBACK EQ2 ADJUSTMENT (FOR AU-63 NTSC)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|--|------|--------------------------------|--|--------------|--|
| TP307<br>F28-AB<br>EDGE CONNECTOR<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>RF. SWEEP | OSCILLOSCOPE   | -----        | VR313<br>( Y PB EQ2 AT1 )<br><br>VR314<br>( Y PB EQ2 AT2 ) |
| 1. SW304 : OFF<br><br>2. SCOPE CH1 : TP307<br>SCOPE CH2 : F28-AB (Trigger)<br><br>3. Adjust VR313 and VR314 (CH1 and CH2)<br>RF signals For :<br>6MHz Level = 100%<br>10MHz Level = 65%<br><br>4. SW304 : ON |      |                                | <div> <p>TP307</p> <p>6MHz : 10MHz = 100 : 65</p> </div> |              |  |

# 12-4-P. Y PLAYBACK EQ2 ADJUSTMENT (FOR AU-63 PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|---|------|--------------------------------|--|--------------|--|
| TP307<br>F28-AB<br>EDGE CONNECTOR<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>RF. SWEEP | OSCILLOSCOPE   | -----        | VR313<br>( Y PB EQ2 AT1 )<br><br>VR314<br>( Y PB EQ2 AT2 ) |
| 1. SW304 : OFF<br><br>2. SCOPE CH1 : TP307<br>SCOPE CH2 : F28-AB (Trigger)<br><br>3. Adjust VR313 and VR314 (CH1 and CH2)<br>RF signals For :<br>8MHz Level = 100%<br>12MHz Level = 40% ± 5%<br><br>4. SW304 : ON |      |                                | <div> <p>TP307</p> <p>8MHz : 12MHz = 100 : 40 ± 5</p> </div> |              |  |

# 12-5-N. Y PLAYBACK FREQUENCY RESPONSE (EQ1) ADJUSTMENT (FINE) (FOR AU-62/AU-63/AU-65 NTSC) (W3 MOD & DEMOD)

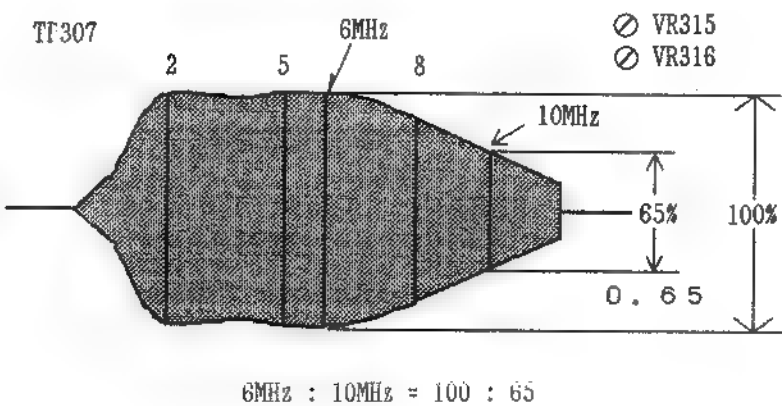
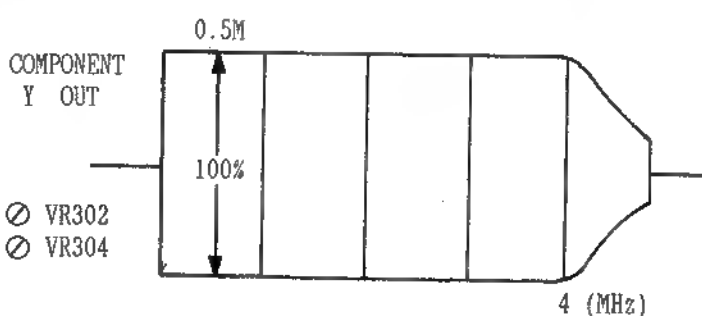
| TEST POINT  | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                               |
|---|------|----------------------------|---|--------------|--|
| COMPONENT<br>Y OUT<br>F28·AB<br>TERMINAL<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | WAVE FORM<br>MONITOR<br>(TEK 1750)  | -----        | VR302<br>(R/P CH2)<br>VR304<br>(R/P CH1) |
| 1. SW304 : ON<br><br>2. SCOPE CH1 : COMPONENT Y OUT<br>SCOPE CH2 : F28·AB (Trigger)<br><br>3. Adjust VR302 and VR304 so that the<br>frequency response becomes For :<br>0.5MHz = 100%<br>4.0MHz = 95 ~ 100% |      |                            | <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> COMPONENT<br/>Y OUT<br/><br/> ⊗ VR302<br/>⊗ VR304 </div> </div> <div style="margin-top: 10px;"> REFERENCE : 0.5MHz = 100%<br/> SPEC : 4MHz = 95 ~ 100% </div> |              |  |

# 12-5-P. Y PLAYBACK FREQUENCY RESPONSE (EQ1) ADJUSTMENT (FINE) (FOR AU-62/AU-63/AU-65 PAL) (W3 MOD & DEMOD)

| TEST POINT   | MODE | TAPE USED                  | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                               |
|--|------|----------------------------|---|--------------|--|
| COMPONENT<br>Y OUT<br>F28·AB<br>TERMINAL<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | WAVE FORM<br>MONITOR<br>(TEK 1751)  | -----        | VR302<br>(R/P CH2)<br>VR304<br>(R/P CH1) |
| 1. SW304 : ON<br><br>2. SCOPE CH1 : COMPONENT Y OUT<br>SCOPE CH2 : F28·AB (Trigger)<br><br>3. Adjust VR302 and VR304 so that the<br>frequency response becomes For :<br>0.5MHz = 100%<br>5.0MHz = 95% ± 5% |      |                            | <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> COMPONENT<br/>Y OUT<br/><br/> ⊗ VR302<br/>⊗ VR304 </div> </div> <div style="margin-top: 10px;"> REFERENCE : 0.5MHz = 100%<br/> SPEC : 5MHz = 95 ± 5% </div> |              |  |

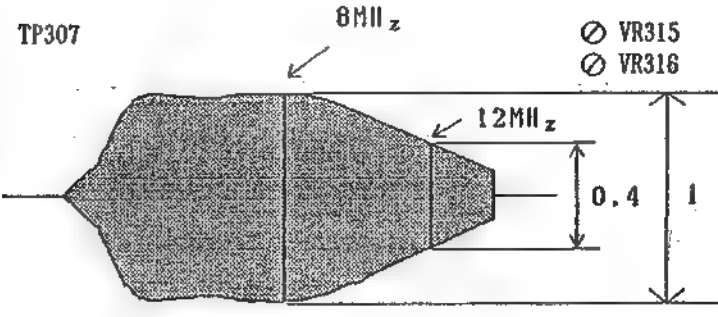
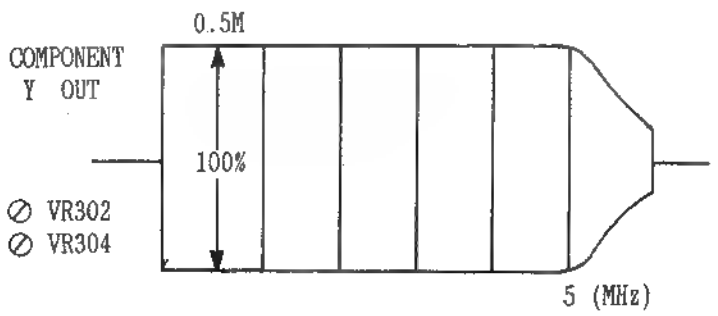
12-6-N. Y PLAYBACK EQ2·EQ1 CONFIRMATION  
(FOR AU-65/63/62 NTSC)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED   | M.EQ.   | INPUT SIGNAL | ADJUSTMENT |
|---|------|---|---|--------------|------------|
| TP307<br>COMPONENT<br>Y OUT<br>F28·AB<br>TERMINAL<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>RF SWEEP<br>&<br>VIDEO SWEEP | WAVE FORM<br>MONITOR<br>(TEK OR 1750)<br>OSCILLOSCOPE   | -----        | -----      |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. SW304 : OFF</li> <li>2. SCOPE CH1 : TP307<br/>SCOPE CH2 : F28·AB (Trigger)</li> <li>3. Play back the RF sweep portion of the Alignment Tape.</li> <li>4. Confirm that the CH1 and CH2 RF signals becomes For :<br/>6MHz Level = 100%<br/>10MHz Level = 85%</li> <li>5. If it is not, readjust VR315/316<br/>(AU-65/62), VR313/314 (AU-63).</li> <li>6. SW304 : ON</li> </ol> |      |   |  <p>Diagram showing the RF signal sweep. The signal is represented as a shaded area with vertical lines at 2, 5, 8, and 10 MHz. The amplitude at 6 MHz is 100% and at 10 MHz is 85%. The ratio is given as 6MHz : 10MHz = 100 : 85. Adjustments VR315 and VR316 are indicated.</p> |              |            |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. SW304 : ON</li> <li>2. SCOPE CH1 : COMPONENT Y OUT<br/>SCOPE CH2 : F28·AB (Trigger)</li> <li>3. Play back the Sweep portion of the Alignment Tape.</li> <li>4. Confirm that the frequency response becomes For :<br/>0.5MHz = 100%<br/>4MHz = 95 ~ 100%</li> <li>5. If it is not, readjust VR302 and VR304.</li> </ol>   |      |   |  <p>Diagram showing the Component Y Out signal sweep. The signal is represented as a shaded area with vertical lines at 0.5 MHz and 4 MHz. The amplitude at 0.5 MHz is 100% and at 4 MHz is 95 ~ 100%. Adjustments VR302 and VR304 are indicated.</p>                             |              |            |

**12-6-P. Y PLAYBACK EQ2-EQ1 CONFIRMATION  
(FOR AU-65/63/62 PAL)**

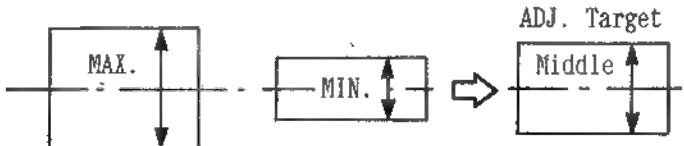
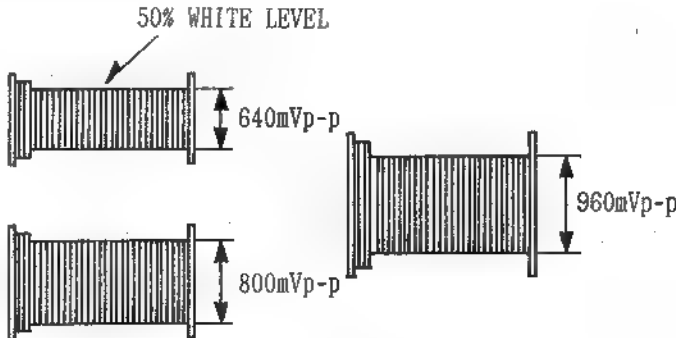
( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED   | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|---|------|---|--|--------------|------------|
| TP307<br>COMPONENT<br>Y OUT<br>F28-AB<br>TERMINAL<br>(Trigger)  | PLAY | ALIGNMENT<br>TAPE<br>RF SWEEP<br>&<br>VIDEO SWEEP | WAVE FORM<br>MONITOR<br>(TEK1751)<br>OR<br>OSCILLOSCOPE  | -----        | -----      |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>SW304 : OFF</li> <li>SCOPE CH1 : TP307<br/>SCOPE CH2 : F28-AB (Trigger)</li> <li>Play back the RF sweep portion of the Alignment Tape.</li> <li>Confirm that the CH1 and CH2 RF signals becomes For :<br/>8MHz Level = 100%<br/>12MHz Level = 40%</li> <li>If it is not, readjust VR315/316 (AU-65/62), VR313/314 (AU-63).</li> <li>SW304 : ON</li> </ol> |      |   | <p>TP307</p>  <p>8MHz : 12MHz = 100 : 40</p>   |              |            |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SW304 : ON</li> <li>SCOPE CH1 : COMPONENT Y OUT<br/>SCOPE CH2 : F28-AB (Trigger)</li> <li>Play back the Sweep portion of the Alignment Tape.</li> <li>Confirm that the frequency response becomes For :<br/>0.5MHz = 100%<br/>5MHz = 95% ± 5%</li> <li>If it is not, readjust VR302 and VR304.</li> </ol>   |      |   | <p>COMPONENT<br/>Y OUT</p>  <p>REFERENCE : 0.5MHz = 100%<br/>SPEC : 5MHz = 95 ± 5%</p> |              |            |



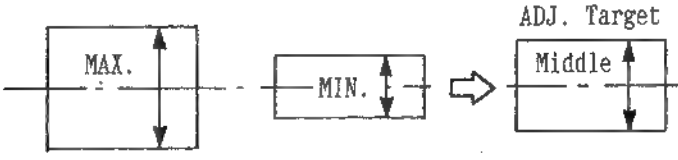
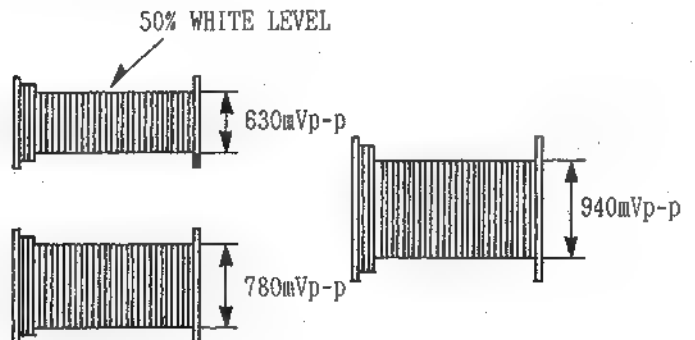
# 12-7-N. Y CH1 RECORDING CURRENT ADJUSTMENT (FOR AU-65 NTSC)

( RA / HA BOARD )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL           | ADJUSTMENT   |
|--|------------------|------------|---|------------------------|--|
| TP3<br>(on RA/HA)<br>TP201<br>(on RA/HA)<br>F28-AB (on W3)<br>(Trigger)  | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE  | COMPONENT<br>50% WHITE | VC1 (Y CH1 REC EQ)<br>(on RA/HA BOARD)<br>VR3 (Y CH1 CURR)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>VR3 : CENTER</li> <li>Place the unit in the recording mode.</li> <li>SCOPE CH1 : TP3 (on RA/HA)<br/>SCOPE CH2 : F28-AB (Trigger) (on W3)</li> <li>During the recording mode, turn VC1 and measure the maximum level and minimum level.</li> <li>Adjust VC1 for the carrier level becomes middle level as shown.</li> </ol>   |                  |            | <p>TP3<br/>⊗ VC1</p>    |                        |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SCOPE CH1 : TP3 (on RA/HA)<br/>SCOPE CH2 : F28-AB (Trigger) (W3)</li> <li>Place the unit in the recording mode.</li> <li>Turn VR3 so that the FM Carrier level of 50% White portion becomes 640mVp-p, 800mVp-p and 960mVp-p record about 10 sec. for each level.</li> <li>SCOPE : TP201 (on RA/HA)</li> <li>Play back the just recorded portion.</li> <li>Find the maximum playback level.</li> <li>Set VR3 to maximum playback level point (640mVp-p, 800mVp-p or 960mVp-p) at TP3.</li> </ol> <p>Note:<br/>If the playback maximum level is all the same level (<math>\pm 1.5\%</math>), set VR3 to lower playback level point. (640mVp-p or 800mVp-p)</p> |                  |            | <p>TP3<br/>⊗ VR3</p>  <p>Note:<br/>This is because AU-65 doesn't have a Confidence PB Head.</p> |                        |  |

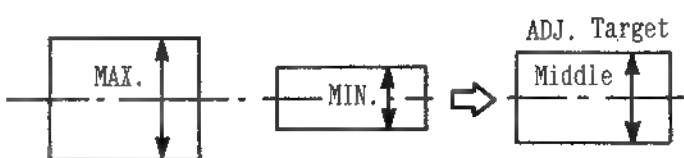
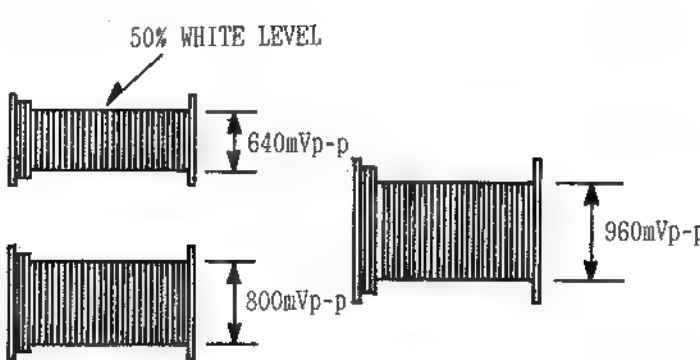
# 12-7-P. Y CH1 RECORDING CURRENT ADJUSTMENT (FOR AU-65 PAL)

( RA / HA BOARD )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL           | ADJUSTMENT   |
|--|------------------|------------|---|------------------------|--|
| TP3<br>(on RA/HA)<br>TP201<br>(on RA/HA)<br>F28-AB (on W3)<br>(Trigger)  | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE  | COMPONENT<br>50% WHITE | VC1 (Y CH1 REC EQ)<br>(on RA/HA BOARD)<br>VR3 (Y CH1 CURR)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>VR3 : CENTER</li> <li>Place the unit in the recording mode.</li> <li>SCOPE CH1 : TP3 (on RA/HA)<br/>SCOPE CH2 : F28-AB (Trigger) (on W3)</li> <li>During the recording mode, turn VC1 and measure the maximum level and minimum level.</li> <li>Adjust VC1 for the carrier level becomes middle level as shown.</li> </ol>   |                  |            | <p>TP3<br/>⊗ VC1</p>    |                        |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SCOPE CH1 : TP3 (on RA/HA)<br/>SCOPE CH2 : F28-AB (Trigger) (W3)</li> <li>Place the unit in the recording mode.</li> <li>Turn VR3 so that the FM Carrier level of 50% White portion becomes 630mVp-p, 780mVp-p and 940mVp-p record about 10 sec. for each level.</li> <li>SCOPE : TP201 (on RA/HA)</li> <li>Play back the just recorded portion.</li> <li>Find the maximum playback level.</li> <li>Set VR3 to maximum playback level point (630mVp-p, 780mVp-p or 940mVp-p) at TP3.</li> </ol> <p>Note:<br/>If the playback maximum level is all the same level (<math>\pm 1.5\%</math>), set VR3 to lower playback level point. (630mVp-p or 780mVp-p)</p> |                  |            | <p>TP3<br/>⊗ VR3</p>  <p>Note:<br/>This is because AU-65 doesn't have a Confidence PB Head.</p> |                        |  |

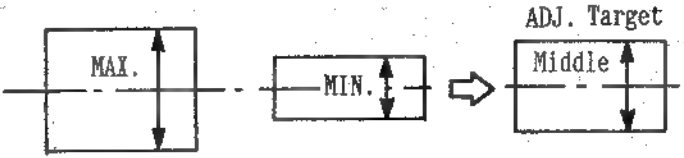
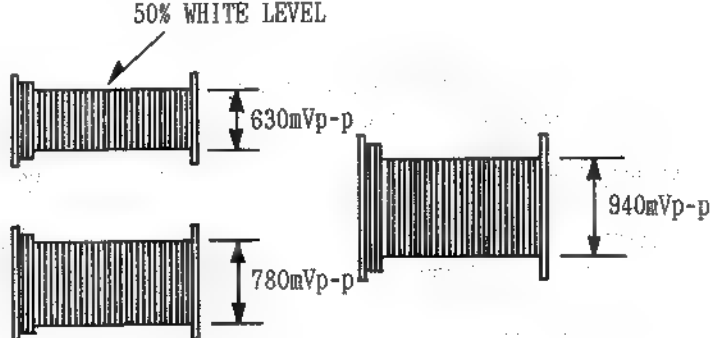
# 12-8-N.Y CH2 RECORDING CURRENT ADJUSTMENT (FOR AU-65 NTSC)

( RA / HA BOARD )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL           | ADJUSTMENT   |
|--|------------------|------------|---|------------------------|--|
| TP4<br>(on RA/HA)<br>TP202<br>(on RA/HA)<br>F33-AB (on W3)<br>(Trigger)  | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE  | COMPONENT<br>50% WHITE | VC2 (Y CH2 REC EQ)<br>(on RA/HA BOARD)<br>VR4 (Y CH2 CURR)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. VR4 : CENTER</li> <li>2. Place the unit in the recording mode.</li> <li>3. SCOPE CH1 : TP4 (on RA/HA)<br/>SCOPE CH2 : F33-AB (Trigger) (on W3)</li> <li>4. During the recording mode, turn VC2 and measure the maximum level and minimum level.</li> <li>5. Adjust VC2 for the carrier level becomes middle level as shown.</li> </ol>  |                  |            | <p>TP4<br/>⊗ VC2</p>    |                        |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. SCOPE CH1 : TP4 (on RA/HA)<br/>SCOPE CH2 : F33-AB (Trigger) (on W3)</li> <li>2. Place the unit in the recording mode.</li> <li>3. Turn VR4 so that the FM Carrier level of 50% White portion becomes 640mVp-p, 800mVp-p and 960mVp-p record about 10 sec. for each level.</li> <li>4. SCOPE : TP202 (on RA/HA)</li> <li>5. Play back the just recorded portion.</li> <li>6. Find the maximum playback level.</li> <li>7. Set VR4 to maximum playback level point (640mVp-p, 800mVp-p or 960mVp-p) at TP3.</li> </ol> <p>Note:<br/>If the playback maximum level is all the same level (<math>\pm 1.5\%</math>), set VR4 to lower playback level point. (640mVp-p or 800mVp-p)</p> |                  |            | <p>TP4<br/>⊗ VR4</p>  <p>Note:<br/>This is because AU-65 doesn't have a Confidence PB Head.</p> |                        |  |

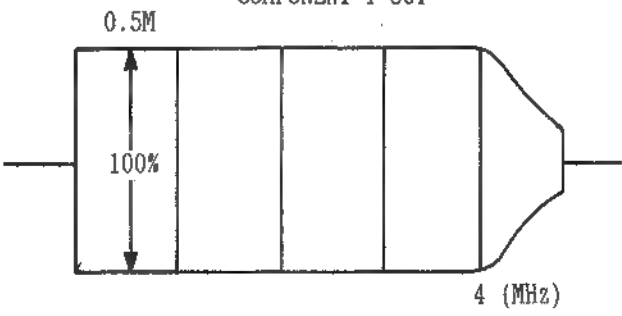
# 12-8-P. Y CH2 RECORDING CURRENT ADJUSTMENT (FOR AU-65 PAL)

( RA / HA BOARD )

| TEST POINT  | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL           | ADJUSTMENT   |
|---|------------------|------------|---|------------------------|--|
| TP4<br>(on RA/HA)<br>TP202<br>(on RA/HA)<br>F33-AB (on W3)<br>(Trigger)   | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE  | COMPONENT<br>50% WHITE | VC2 (Y CH2 REC EQ)<br>(on RA/HA BOARD)<br>VR4 (Y CH2 CURR)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>VR4 : CENTER</li> <li>Place the unit in the recording mode.</li> <li>SCOPE CH1 : TP4 (on RA/HA)<br/>SCOPE CH2 : F33-AB (Trigger) (on W3)</li> <li>During the recording mode, turn VC2 and measure the maximum level and minimum level.</li> <li>Adjust VC2 for the carrier level becomes middle level as shown.</li> </ol>  |                  |            | <p>TP4<br/>⊗ VC2</p>    |                        |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SCOPE CH1 : TP4 (on RA/HA)<br/>SCOPE CH2 : F33-AB (Trigger) (on W3)</li> <li>Place the unit in the recording mode.</li> <li>Turn VR4 so that the FM Carrier level of 50% White portion becomes 630mVp-p, 780mVp-p and 940mVp-p record about 10 sec. for each level.</li> <li>SCOPE : TP202 (on RA/HA)</li> <li>Play back the just recorded portion.</li> <li>Find the maximum playback level.</li> <li>Set VR4 to maximum playback level point (630mVp-p, 780mVp-p or 940mVp-p) at TP3.</li> </ol> <p>Note:<br/>If the playback maximum level is all the same level (<math>\pm 1.5\%</math>), set VR4 to lower playback level point. (630mVp-p or 780mVp-p)</p> |                  |            | <p>TP4<br/>⊗ VR4</p>  <p>Note:<br/>This is because AU-65 doesn't have a Confidence PB Head.</p> |                        |  |

**12-9-N. Y SELF RECORDING PLAYBACK FREQUENCY  
RESPONSE ADJUSTMENT  
(FOR AU-65 NTSC)**

( RA / HA BOARD )

| TEST POINT   | MODE             | TAPE USED     | M.EQ.   | INPUT SIGNAL                 | ADJUSTMENT   |
|--|------------------|---------------|---|------------------------------|--|
| COMPONENT<br>Y OUT<br>TP3(CH1)<br>(on RA/HA)<br>TP4(CH2)<br>(on RA/HA)   | SELF<br>REC/PLAY | BLANK<br>TAPE | OSCILLOSCOPE<br><br>WAVEFORM<br>MONITOR   | COMPONENT<br>60%<br>H. SWEEP | VC1, VR3 (CH1)<br>(on RA/HA BOARD)<br>VC2, VR4 (CH2)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Make a recording.</li> <li>2. Then playback the just recorded portion.</li> <li>3. WFM MONITOR : COMPONENT Y OUT</li> <li>4. Confirm that the Y PB Frequency Response becomes For :<br/>0.5MHz = 100%<br/>4MHz = 95% <math>\pm</math> 5%</li> </ol>   |                  |               | <p>COMPONENT Y OUT</p>  <p>0.5M</p> <p>100%</p> <p>4 (MHz)</p> <p>REF : 0.5MHz = 100%<br/>SPEC : 4MHz = 90 ~ 95%</p>   |                              |  |
| <p>Step 2.</p> <p>If it is not within the specification,<br/>the following method is required.</p> <p>FREQUENCY RESPONSE LEVEL IS TOO HIGH.</p> <ol style="list-style-type: none"> <li>1) SCOPE : TP3 (Y CH1)<br/>TP4 (Y CH2)</li> <li>2) Notate the FM Carrier Level at<br/>TP3 (CH1) and TP4 (CH2) on RA/HA.</li> <li>3) Turn VC1 (CH1) and VC2 (CH2) slightly<br/>to increase the FM Carrier Level at<br/>TP3 (CH1) and TP4 (CH2).</li> <li>4) Adjust VR3 (CH1) and VR4 (CH2) so that<br/>the FM Carrier Level matches the<br/>notated FM Carrier Level in item 2.</li> </ol> |                  |               | <p>FREQUENCY RESPONSE IS COMPRESSED.</p> <ol style="list-style-type: none"> <li>1) SCOPE : TP3 (Y CH1)<br/>TP4 (Y CH2)</li> <li>2) Notate the FM Carrier Level at<br/>TP3 (CH1) and TP4 (CH2) on RA/HA.</li> <li>3) Turn VC1 (CH1) and VC2 (CH2) slightly<br/>to decrease the FM Carrier Level at<br/>TP3 (CH1) and TP4 (CH2).</li> <li>4) Adjust VR3 (CH1) and VR4 (CH2) so that<br/>the FM Carrier Level matches notated<br/>FM Carrier Level in item 2.</li> </ol> |                              |  |
| <p>Step 3.</p> <ol style="list-style-type: none"> <li>1. Finally confirm the Y Self Rec<br/>Frequency Response (Step1).</li> </ol>   |                  |               |   |                              |  |

**12-9-P. Y SELF RECORDING PLAYBACK FREQUENCY  
RESPONSE ADJUSTMENT  
(FOR AU-65 PAL)**

( RA / HA BOARD )

| TEST POINT   | MODE             | TAPE USED     | M.EQ.   | INPUT SIGNAL                 | ADJUSTMENT   |
|--|------------------|---------------|---|------------------------------|--|
| COMPONENT<br>Y OUT<br>TP3<br>(on RA/HA)<br>TP4<br>(on RA/HA)   | SELF<br>REC/PLAY | BLANK<br>TAPE | OSCILLOSCOPE<br><br>WAVEFORM<br>MONITOR   | COMPONENT<br>60%<br>H. SWEEP | VC1, VR3 (CH1)<br>(on RA/HA BOARD)<br>VC2, VR4 (CH2)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Make a recording.</li> <li>2. Then playback the just recorded portion.</li> <li>3. WFM MONITOR : COMPONENT Y OUT</li> <li>4. Confirm that the Y PB Frequency Response becomes For :<br/>0.5MHz = 100%<br/>5MHz = 95% <math>\pm</math> 5%</li> </ol>   |                  |               | <div data-bbox="782 698 1396 1036" data-label="Figure"> </div> <p>REF : 0.5MHz = 100%<br/>SPEC : 5MHz = 95% <math>\pm</math> 5%</p>   |                              |  |
| <p>Step 2.</p> <p>If it is not within the specification,<br/>the following method is required.</p> <p>FREQUENCY RESPONSE LEVEL IS TOO HIGH.</p> <ol style="list-style-type: none"> <li>1) SCOPE : TP3 (Y CH1)<br/>TP4 (Y CH2)</li> <li>2) Notate the FM Carrier Level at<br/>TP3 (CH1) and TP4 (CH2) on RA/HA.</li> <li>3) Turn VC1 (CH1) and VC2 (CH2) slightly<br/>to increase the FM Carrier Level at<br/>TP3 (CH1) and TP4 (CH2).</li> <li>4) Adjust VR3 (CH1) and VR4 (CH2) so that<br/>the FM Carrier Level matches the<br/>notated FM Carrier Level in item 2.</li> </ol> |                  |               | <p>FREQUENCY RESPONSE IS COMPRESSED.</p> <ol style="list-style-type: none"> <li>1) SCOPE : TP3 (Y CH1)<br/>TP4 (Y CH2)</li> <li>2) Notate the FM Carrier Level at<br/>TP3 (CH1) and TP4 (CH2) on RA/HA.</li> <li>3) Turn VC1 (CH1) and VC2 (CH2) slightly<br/>to decrease the FM Carrier Level at<br/>TP3 (CH1) and TP4 (CH2).</li> <li>4) Adjust VR3 (CH1) and VR4 (CH2) so that<br/>the FM Carrier Level matches notated<br/>FM Carrier Level in item 2.</li> </ol> |                              |  |
| <p>Step 3.</p> <ol style="list-style-type: none"> <li>1. Finally confirm the Y Self Rec<br/>Frequency Response (Step1).</li> </ol>   |                  |               |   |                              |  |

**12-10-N. Y HF LINEARITY ADJUSTMENT (1)**  
(FOR AU-65/63/62 NTSC)

( W3 MOD & DEMOD )

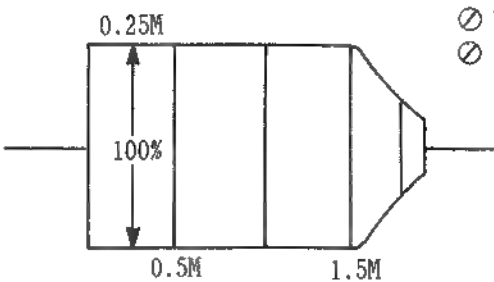
| TEST POINT   | MODE | TAPE USED                                 | M.EQ.   | INPUT SIGNAL | ADJUSTMENT       |
|--|------|---|---|--------------|------------------|
| COMPONENT<br>Y OUT   | PLAY | ALIGNMENT<br>TAPE<br>80IRE RAMP<br>SIGNAL | WFM/VECTOR<br>MONITOR<br>(TEK 1750)                               | -----        | VR310<br>( EQ4 ) |
| Step 1.<br>WFM MONITOR CONDITION   |      |   | 1. MODE : WFM mode<br>2. FILTER : CHROMA                          |              |                  |
| Step 2.<br><br>1. WFM MONITOR : COMPONENT Y OUT<br>2. Adjust VR310 so that the HF linearity becomes for :<br>A = 100% B = 100 ± 10%<br>3. Confirm the Y PLAYBACK FREQUENCY RESPONSE (EQ1) ADJUSTMENT (FINE) (12-5-N).<br>4. If it is not, readjust Section 12-5-N and 12-10-N. |      |   | <p>COMPONENT Y OUT      ⊗ VR310</p> <p>A : B = 100 : 100 ± 10</p> |              |                  |

**12-10-P. Y HF LINEARITY ADJUSTMENT (1)**  
(FOR AU-65/63/62 PAL)

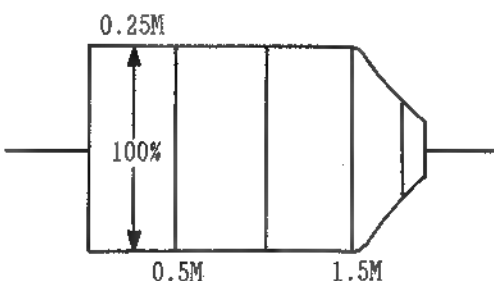
( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                        | M.EQ.   | INPUT SIGNAL | ADJUSTMENT       |
|--|------|----------------------------------|---|--------------|------------------|
| COMPONENT<br>Y OUT   | PLAY | ALIGNMENT<br>TAPE<br>RAMP SIGNAL | WFM/VECTOR<br>MONITOR<br>(TEK 1751)                               | -----        | VR310<br>( EQ4 ) |
| Step 1.<br>WFM MONITOR CONDITION   |      |                                  | 1. MODE : WFM mode<br>2. FILTER : CHROMA                          |              |                  |
| Step 2.<br><br>1. WFM MONITOR : COMPONENT Y OUT<br>2. Adjust VR310 so that the HF linearity becomes for :<br>A = 100% B = 100 ± 10%<br>3. Confirm the Y PLAYBACK FREQUENCY RESPONSE (EQ1) ADJUSTMENT (FINE) (12-5-P).<br>4. If it is not, readjust Section 12-5-P and 12-10-P. |      |                                  | <p>COMPONENT Y OUT      ⊗ VR310</p> <p>A : B = 100 : 100 ± 10</p> |              |                  |

**12-11. C PLAYBACK FREQUENCY RESPONSE ADJUSTMENT**  
**(FINE) (FOR AU-65/AU-62 NTSC & PAL)** ( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                     |
|---|------|----------------------------|--|--------------|--------------------------------|
| COMPONENT<br>Pr/Pb OUT<br>F33-AB<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | WAVEFORM<br>MONITOR<br>OR OSCILLOSCOPE   | -----        | VR712 (R/P 1)<br>VR713 (R/P 2) |
| 1. SCOPE CH1 : COMPONENT Pr/Pb OUT<br>SCOPE CH2 : F33-AB (Trigger)<br>2. Adjust VR712 and VR713 so that the frequency response becomes for :<br>0.25MHz = 100%<br>1.5MHz = 95% $\pm$ 5% |      |                            | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">COMPONENT<br/>Pr/Pb<br/>OUT</div>  <div style="margin-left: 20px;"> <math>\bigcirc</math> VR712<br/> <math>\bigcirc</math> VR713             </div> </div> <div style="margin-top: 10px;">               REF : 0.25MHz = 100%<br/>               SPEC : 1.5MHz = 95% <math>\pm</math> 5%             </div> |              |                                |

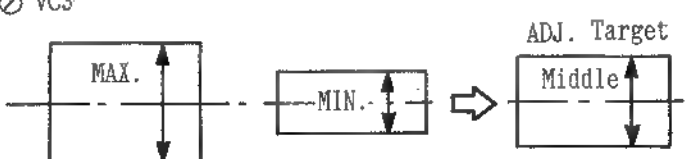
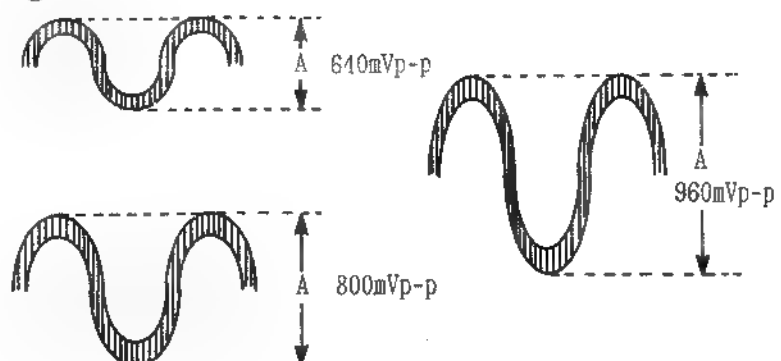
**12-12. C PLAYBACK FREQUENCY RESPONSE ADJUSTMENT**  
**(FINE) (FOR AU-63 NTSC & PAL)** ( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                  | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                 |
|---|------|----------------------------|--|--------------|----------------------------|
| COMPONENT<br>Pr/Pb OUT<br>F33-AB<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>SWEEP | WAVEFORM<br>MONITOR<br>(TEK 1750)  | -----        | VR710 (AT1)<br>VR711 (AT1) |
| 1. SCOPE CH1 : COMPONENT Pr/Pb OUT<br>SCOPE CH2 : F33-AB (Trigger)<br>2. Adjust VR710 and VR711 so that the frequency response becomes for :<br>0.25MHz = 100%<br>1.5MHz = 95% $\pm$ 5% |      |                            | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"></div>  </div> <div style="margin-top: 10px;">               REF : 0.25MHz = 100%<br/>               SPEC : 1.5MHz = 95% <math>\pm</math> 5%             </div> |              |                            |



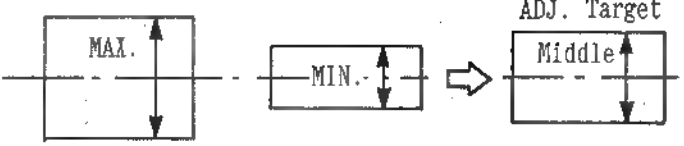
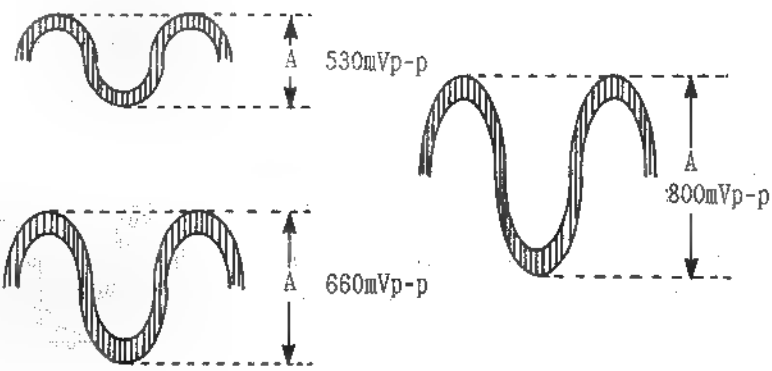
# 12-13-N.C CH1 RECORDING CURRENT ADJUSTMENT (FOR AU-65 NTSC)

( RA / HA BOARD )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT   |
|--|------------------|------------|--|------------------------|--|
| TP5<br>(on RA/HA)<br>TP203<br>(on RA/HA)   | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE   | COMPONENT<br>50% WHITE | VC3 (C CH1 REC EQ)<br>(on RA/HA BOARD)<br>VR5 (C CH1 CURR)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>VR5 : CENTER</li> <li>Place the unit in the recording mode.</li> <li>SCOPE : TP5 (on RA/HA)</li> <li>During the recording mode, turn VC3 and measure the maximum level and minimum level.</li> <li>Adjust VC3 for the carrier level becomes middle level as shown.</li> </ol>  |                  |            | <p>TP5<br/>⊗ VC3</p>   |                        |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SCOPE : TP5 (on RA/HA)</li> <li>Place the unit in the recording mode.</li> <li>Turn VR5 so that the FM Carrier A level becomes 640mVp-p, 800mVp-p and 960mVp-p record about 10 sec. for each level.</li> <li>SCOPE : TP203 (on RA/HA)</li> <li>Play back the just recorded portion.</li> <li>Find the maximum playback level.</li> <li>Set VR5 to maximum playback level point (640mVp-p, 800mVp-p or 960mVp-p) at TP5.</li> </ol> <p>Note:<br/>If the playback maximum level is all the same level (<math>\pm 1.5\%</math>), set VR5 to lower playback level point.</p> |                  |            | <p>TP5<br/>⊗ VR5</p>  <p>Note : This is because AU-65 doesn't have a Confidence PB Head.</p> |                        |  |

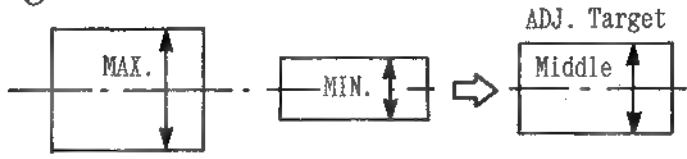
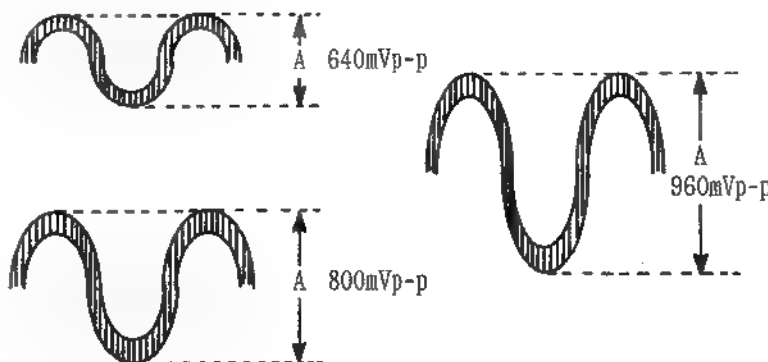
# 12-13-P. C CH1 RECORDING CURRENT ADJUSTMENT (FOR AU-65 PAL)

( RA / HA BOARD )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT   |
|--|------------------|------------|--|------------------------|--|
| TP5<br>(on RA/HA)<br>TP203<br>(on RA/HA)   | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE   | COMPONENT<br>50% WHITE | VC3 (C CH1 REC EQ)<br>(on RA/HA BOARD)<br>VR5 (C CH1 CURR)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>VR5 : CENTER</li> <li>Place the unit in the recording mode.</li> <li>SCOPE : TP5 (on RA/HA)</li> <li>During the recording mode, turn VC3 and measure the maximum level and minimum level.</li> <li>Adjust VC3 for the carrier level becomes middle level as shown.</li> </ol>  |                  |            | <p>TP5<br/>⊗ VC3</p>   |                        |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SCOPE : TP5 (on RA/HA)</li> <li>Place the unit in the recording mode.</li> <li>Turn VR5 so that the FM Carrier A level becomes 530mVp-p, 660mVp-p and 800mVp-p record about 10 sec. for each level.</li> <li>SCOPE : TP203 (on RA/HA)</li> <li>Play back the just recorded portion.</li> <li>Find the maximum playback level.</li> <li>Set VR5 to maximum playback level point (530mVp-p, 660mVp-p or 800mVp-p) at TP5.</li> </ol> <p>Note:<br/>If the playback maximum level is all the same level (<math>\pm 1.5\%</math>), set VR5 to lower playback level point.</p> |                  |            | <p>TP5<br/>⊗ VR5</p>  <p>Note : This is because AU-65 doesn't have a Confidence PB Head.</p> |                        |  |

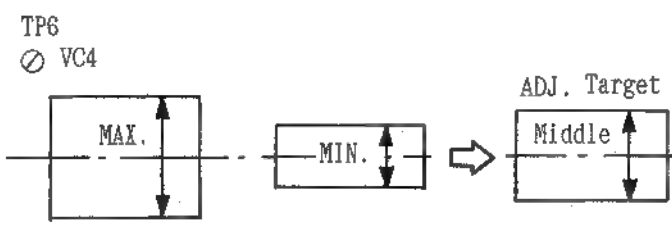
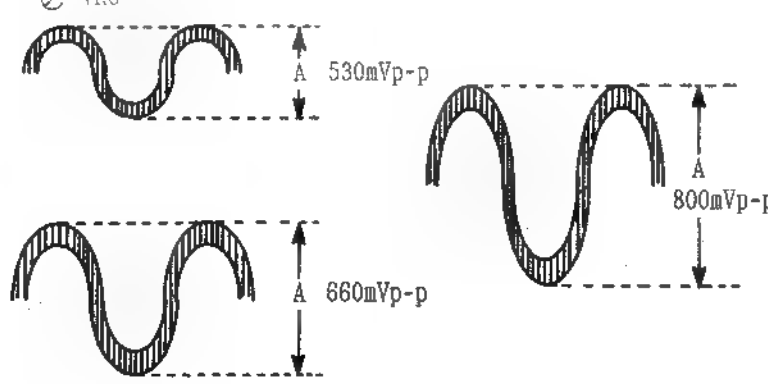
# 12-14-N. C CH2 RECORDING CURRENT ADJUSTMENT (FOR AU-65 NTSC)

( RA / HA BOARD )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT   |
|--|------------------|------------|--|------------------------|--|
| TP6<br>(on RA/HA)<br>TP204<br>(on RA/HA)   | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE   | COMPONENT<br>50% WHITE | VC4 (C CH2 REC EQ)<br>(on RA/HA BOARD)<br>VR6 (C CH2 CURR)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>VR6 : CENTER</li> <li>Place the unit in the recording mode.</li> <li>SCOPE : TP6 (on RA/HA)</li> <li>During the recording mode, turn VC4 and measure the maximum level and minimum level.</li> <li>Adjust VC4 for the carrier level becomes middle level as shown in figure.</li> </ol>  |                  |            | <p>TP6<br/>⊗ VC4</p>   |                        |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SCOPE : TP6 (on RA/HA)</li> <li>Place the unit in the recording mode.</li> <li>Turn VR6 so that the FM Carrier A level becomes 640mVp-p, 800mVp-p and 960mVp-p record about 10 sec. for each level.</li> <li>SCOPE : TP204 (on RA/HA)</li> <li>Play back the just recorded portion.</li> <li>Find the maximum playback level.</li> <li>Set VR6 to maximum playback level point (640mVp-p, 800mVp-p or 960mVp-p) at TP6.</li> </ol> <p>Note:<br/>If the playback maximum level is all the same level (<math>\pm 1.5\%</math>), set VR6 to lower playback level point.</p> |                  |            | <p>TP6<br/>⊗ VR6</p>  <p>Note : This is because AU-65 doesn't have a Confidence PB Head.</p> |                        |  |

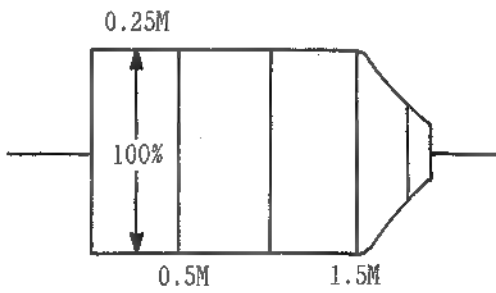
# 12-14-P. C CH2 RECORDING CURRENT ADJUSTMENT (FOR AU-65 PAL)

( RA / HA BOARD )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT   |
|--|------------------|------------|--|------------------------|--|
| TP6<br>(on RA/HA)<br>TP204<br>(on RA/HA)   | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE   | COMPONENT<br>50% WHITE | VC4 (C CH2 REC EQ)<br>(on RA/HA BOARD)<br>VR6 (C CH2 CURR)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>VR6 : CENTER</li> <li>Place the unit in the recording mode.</li> <li>SCOPE : TP6 (on RA/HA)</li> <li>During the recording mode, turn VC4 and measure the maximum level and minimum level.</li> <li>Adjust VC4 for the carrier level becomes middle level as shown in figure.</li> </ol>  |                  |            | <p>TP6<br/>⊗ VC4</p>   |                        |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>SCOPE : TP6 (on RA/HA)</li> <li>Place the unit in the recording mode.</li> <li>Turn VR6 so that the FM Carrier A level becomes 530mVp-p, 660mVp-p and 800mVp-p record about 10 sec. for each level.</li> <li>SCOPE : TP204 (on RA/HA)</li> <li>Play back the just recorded portion.</li> <li>Find the maximum playback level.</li> <li>Set VR6 to maximum playback level point (530mVp-p, 660mVp-p or 800mVp-p) at TP6.</li> </ol> <p>Note:<br/>If the playback maximum level is all the same level (<math>\pm 1.5\%</math>), set VR6 to lower playback level point.</p> |                  |            | <p>TP6<br/>⊗ VR6</p>  <p>Note : This is because AU-65 doesn't have a Confidence PB Head.</p> |                        |  |

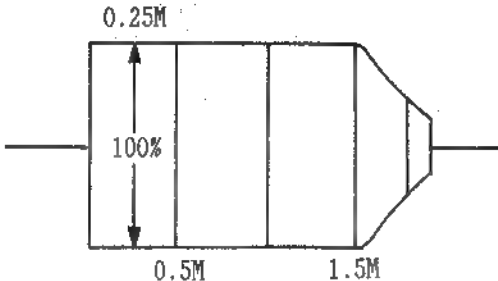
**12-15-N. C SELF RECORDING PLAYBACK FREQUENCY  
RESPONSE ADJUSTMENT  
(FOR AU-65 NTSC)**

( RA / HA BOARD )

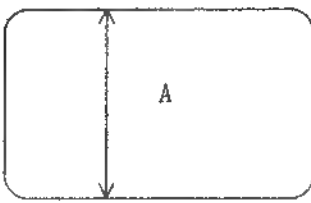
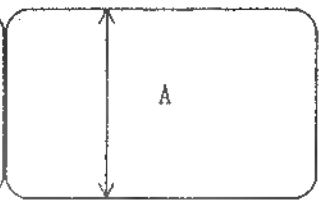
| TEST POINT  | MODE             | TAPE USED | M.EQ.  | INPUT SIGNAL                 | ADJUSTMENT   |
|---|------------------|-----------|--|------------------------------|--|
| COMPONENT<br>Pr/Pb OUT<br>TP5<br>(on RA/HA)<br>TP6<br>(on RA/HA)  | SELF<br>REC/PLAY | BLANK     | OSCILLOSCOPE<br><br>WAVEFORM<br>MONITOR  | COMPONENT<br>60%<br>H. SWEEP | VC3, VR5 (CH1)<br>(on RA/HA BOARD)<br>VC4, VR6 (CH2)<br>(on RA/HA BOARD) |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Make a recording for a few minutes.</li> <li>2. Then playback the just recorded portion.</li> <li>3. WFM MONITOR : COMPONENT Pr OUT<br/>COMPONENT Pb OUT</li> <li>4. Confirm that the C PB Frequency Response becomes for :<br/>0.25MHz = 100%<br/>1.5MHz = 80% <math>\pm</math> 5%</li> </ol>   |                  |           | <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">COMPONENT<br/>Pr/Pb OUT</div>  </div> <div style="margin-top: 20px;"> REF : 0.25MHz = 100%<br/> SPEC : 1.5MHz = 80% <math>\pm</math> 5% </div>  |                              |  |
| <p>Step 2.</p> <p>If it is not within the specification,<br/>the following method is required.</p> <p>* FREQUENCY RESPONSE LEVEL IS TOO HIGH<br/>AT 1.5MHz PORTION.</p> <ol style="list-style-type: none"> <li>1) SCOPE : TP5 (C CH1)<br/>TP6 (C CH2)</li> <li>2) Notate the FM Carrier Level at<br/>TP5 (CH1) and TP6 (CH2).</li> <li>3) Turn VC3 (CH1) and VC4 (CH2) slightly<br/>to increase the FM Carrier Level at<br/>TP5 (CH1) and TP6 (CH2).</li> <li>4) Adjust VR5 (CH1) and VR6 (CH2) so that<br/>the FM Carrier Level matches the<br/>notated FM Carrier Level in item 2.</li> </ol> |                  |           | <p>* FREQUENCY RESPONSE IS COMPRESSED<br/>AT 1.5MHz PORTION.</p> <ol style="list-style-type: none"> <li>1) SCOPE : TP5 (C CH1)<br/>TP6 (C CH2)</li> <li>2) Notate the FM Carrier Level at<br/>TP5 (CH1) and TP6 (CH2).</li> <li>3) Turn VC3 (CH1) and VC4 (CH2) slightly<br/>to decrease the FM Carrier Level at<br/>TP5 (CH1) and TP6 (CH2).</li> <li>4) Adjust VR5 (CH1) and VR6 (CH2) so that<br/>the FM Carrier Level matches the notated<br/>FM Carrier Level in item 2.</li> </ol> |                              |  |

**12-15-P. C SELF RECORDING PLAYBACK FREQUENCY  
RESPONSE ADJUSTMENT  
(FOR AU-65 PAL)**

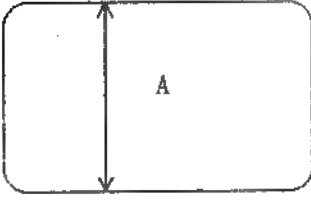
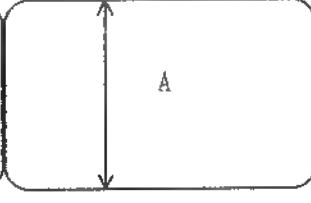
( RA / HA BOARD )

| TEST POINT  | MODE             | TAPE USED | M.EQ.   | INPUT SIGNAL                 | ADJUSTMENT   |
|---|------------------|-----------|---|------------------------------|--|
| COMPONENT<br>Pr/Pb OUT<br>TP5<br>(on RA/HA)<br>TP6<br>(on RA/HA)  | SELF<br>REC/PLAY | BLANK     | OSCILLOSCOPE<br><br>WAVEFORM<br>MONITOR   | COMPONENT<br>60%<br>H. SWEEP | VC3, VR5 (CH1)<br>(on RA/HA BOARD)<br>VC4, VR6 (CH2)<br>(on RA/HA BOARD) |
| Step 1.<br><br>1. Make a recording for a few minutes.<br>2. Then playback the just recorded portion.<br>3. WFM MONITOR : COMPONENT Pr OUT<br>COMPONENT Pb OUT<br>4. Confirm that the C PB Frequency Response becomes for :<br>0.25MHz = 100%<br>1.5MHz = 95% ± 5%   |                  |           | <div><div>COMPONENT<br/>Pr/Pb OUT</div><div>REF : 0.25MHz = 100%<br/>SPEC : 1.5MHz = 95% ± 5%</div></div>   |                              |  |
| Step 2.<br><br>If it is not within the specification,<br>the following method is required.<br><br>* FREQUENCY RESPONSE LEVEL IS TOO HIGH<br>AT 1.5MHz PORTION.<br>1) SCOPE : TP5 (C CH1)<br>TP6 (C CH2)<br><br>2) Notate the FM Carrier Level at<br>TP5 (CH1) and TP6 (CH2).<br><br>3) Turn VC3 (CH1) and VC4 (CH2) slightly<br>to increase the FM Carrier Level at<br>TP5 (CH1) and TP6 (CH2).<br>4) Adjust VR5 (CH1) and VR6 (CH2) so that<br>the FM Carrier Level matches the<br>notated FM Carrier Level in item 2. |                  |           | * FREQUENCY RESPONSE IS COMPRESSED<br>AT 1.5MHz PORTION.<br>1) SCOPE : TP5 (C CH1)<br>TP6 (C CH2)<br><br>2) Notate the FM Carrier Level at<br>TP5 (CH1) and TP6 (CH2).<br><br>3) Turn VC3 (CH1) and VC4 (CH2) slightly<br>to decrease the FM Carrier Level at<br>TP5 (CH1) and TP6 (CH2).<br>4) Adjust VR5 (CH1) and VR6 (CH2) so that<br>the FM Carrier Level matches the notated<br>FM Carrier Level in item 2. |                              |  |

**12-16. Y PLAYBACK FM CARRIER LEVEL READJUSTMENT**  
**(FOR AU-65/AU-63/AU-62 NTSC & PAL)** ( W3: MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|--|------|--------------------------------|--|--------------|--|
| TP301<br>F29-AB<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE   | -----        | VR301<br><R/P (AT) CH2 LEV><br>VR303<br><R/P (AT) CH1 LEV> |
| 1. SCOPE CH1 : TP301<br>SCOPE CH2 : F29-AB EDGE CONNECTOR<br>(on W3) For Trigger<br><br>2. Adjust VR301 and VR303 so that the<br>signal level at TP301 is $400 \pm 20\text{mVp-p}$ . |      |                                | TP301<br><br><div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">             CH1<br/> <br/>             A<br/>             ⌀ VR303           </div> <div style="text-align: center;">             CH2<br/> <br/>             A<br/>             ⌀ VR301           </div> </div> <p style="text-align: center;"><math>A = 400 \pm 50\text{mVp-p}</math></p> |              |  |

**12-17. C PLAYBACK FM CARRIER LEVEL READJUSTMENT**  
**(FOR AU-65/AU-63/AU-62 NTSC & PAL)** ( W3: MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                       |
|--|------|--------------------------------|--|--------------|--|
| TP701<br>F33-AB<br>(Trigger)   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE   | -----        | VR701<br>(R/P CH2 LEV)<br>VR702<br>(R/P CH1 LEV) |
| 1. SCOPE CH1 : TP701<br>SCOPE CH2 : F33-AB EDGE CONNECTOR<br>(on W3) For Trigger<br><br>2. Adjust VR701 and VR702 so that the<br>signal level at TP701 is $400 \pm 20\text{mVp-p}$ . |      |                                | TP701<br><br><div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">             CH1<br/> <br/>             A<br/>             ⌀ VR702           </div> <div style="text-align: center;">             CH2<br/> <br/>             A<br/>             ⌀ VR701           </div> </div> <p style="text-align: center;"><math>A = 400 \pm 50\text{mVp-p}</math></p> |              |  |

**12-18. Y PLAYBACK RF LEVEL ADJUSTMENT (FINE)**  
**(FOR AU-65/63/62 NTSC & PAL)**

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT            |
|--|------|--------------------------------|---|--------------|-----------------------|
| TP307  | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE                                    | -----        | VR317<br>(LIM RF LEV) |
| Step 1.<br>MACHINE CONDITION   |      |                                | SW304 → OFF                                     |              |                       |
| Step 2.<br><br>Adjust VR317 so that the RF level<br>at TP307 is $300 \pm 20\text{mVp-p}$ . |      |                                | ⊙ VR317<br><br>TP307 : $300 \pm 20\text{mVp-p}$ |              |                       |
| Step 3.<br><br>SW304 → ON  |      |                                |   |              |                       |

**12-19. C PLAYBACK RF LEVEL ADJUSTMENT (FINE)**  
**(FOR AU-65/63/62 NTSC & PAL)**

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED                      | M.EQ.   | INPUT SIGNAL | ADJUSTMENT               |
|---|------|--------------------------------|---|--------------|--------------------------|
| TP703   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE                                    | -----        | VR714<br>(LIM IN RF LEV) |
| Step 1.<br>MACHINE CONDITION  |      |                                | SW704 → OFF                                     |              |                          |
| Step 2.<br><br>Adjust VR714 so that the signal level<br>at TP703 is $300 \pm 20\text{mVp-p}$ .        |      |                                | ⊙ VR714<br><br>TP703 : $300 \pm 20\text{mVp-p}$ |              |                          |
| Step 3.<br>SW704 → OFF<br><br>Note:<br>The Chroma Super Limiter Function is<br>not used at this time. |      |                                |   |              |                          |




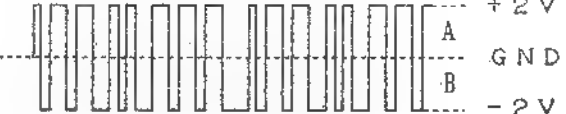
# 12-20. Y DROP OUT DETECTION LEVEL ADJUSTMENT (FOR AU-65/62 NTSC & PAL)

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT          |
|--|----------------|--------------------------------|--|--------------|---------------------|
| TP307<br>TP315   | JOG<br>(STILL) | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE   | -----        | VR320<br>(D.O. DET) |
| Step 1.<br>MACHINE CONDITION   |                |                                | SW304 → OFF<br>MODE : JOG (STOP) in the Color Bar portion.   |              |                     |
| Step 2.<br>1. Place the unit in the JOG STILL mode.  |                |                                |  |              |                     |
| Step 3.<br>1. SCOPE CH1 : TP307<br>SCOPE CH2 : TP315<br>2. Adjust VR320 so that the DO pulses appear when level A is $50 \pm 5\text{mVp-p}$ at TP307.<br>3. Finally reset SW304 to "ON". |                |                                | <div style="text-align: center;"> <p>⊙ VR320</p> <p>TP307</p> <p>TP315</p> <p><math>A = 50 \pm 5\text{mVp-p}</math></p> </div> |              |                     |

# 12-21.Y DROP OUT DETECTION LEVEL ADJUSTMENT (FOR AU-63 NTSC & PAL)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                      |
|--|------|--------------------------------|--|--------------|---|
| TP307<br>TP315   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE   | -----        | VR317<br>(LIM IN RF LEV)<br>VR320<br>(D.O. DET) |
| Step 1.<br>MACHINE CONDITION   |      |                                | SW304 → OFF  |              |   |
| Step 2.<br><br>1. SCOPE : TP307<br>2. Adjust VR317 so that the RF level (A) becomes $50 \pm 5\text{mVp-p}$ as shown in figure.   |      |                                | <div> <div>⊗ VR317</div> <div> TP307  </div> <div><math>A = 50 \pm 5\text{mVp-p}</math></div> </div> |              |   |
| Step 3.<br><br>1. SCOPE SETTING : 1) Set GND LEVEL<br>2) Set AC Mode<br>2. SCOPE : TP315<br>3. Adjust VR320 so that level (A) equals level (B).<br>4. After that adjust VR317 so that the RF level becomes $300 \pm 20\text{mVp-p}$ at TP307.<br>5. SW304 → ON |      |                                | <div> <div>⊗ VR320</div> <div> TP315  </div> <div><math>A = B</math></div> </div>                  |              |   |



# 12-22. C DROP OUT DETECTION LEVEL ADJUSTMENT (FOR AU-65/62 NTSC & PAL)

( W3 MOD & DEMOD )

| TEST POINT   | MODE           | TAPE USED                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT          |
|--|----------------|--------------------------------|--|--------------|---------------------|
| TP703<br>TP705   | JOG<br>(STILL) | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE   | -----        | VR717<br>(D.O. DET) |
| Step 1.<br>MACHINE CONDITION   |                |                                | SW704 → OFF<br>MODE : JOG (STOP) at Color Bar portion.   |              |                     |
| Step 2.<br>1. Place the unit in the JOG STILL mode.  |                |                                |  |              |                     |
| Step 3.<br>1. SCOPE CH1 : TP703<br>SCOPE CH2 : TP705<br>2. Adjust VR717 so that the DO pulses are<br>appeared when level A of TP703 is $50 \pm 5\text{mVp-p}$ .<br>3. SW704 : NTSC : OFF<br>PAL : ON<br><br>Note [NTSC]:<br>The Chroma Super Limiter Function is<br>not used at this time in NTSC model. |                |                                | <div style="text-align: center;"> <p>⊙ VR717</p> <p>TP703</p> <p>TP705</p> <p><math>A = 50 \pm 5\text{mVp-p}</math></p> </div> |              |                     |

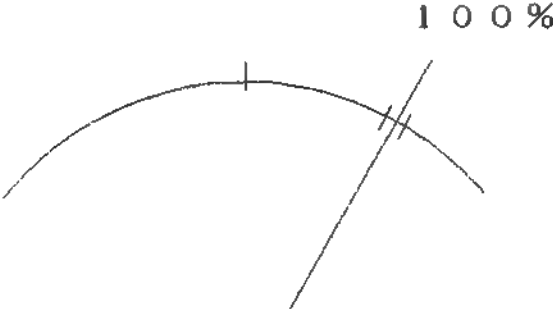
# 12-23. C DROP OUT DETECTION LEVEL ADJUSTMENT (FOR AU-63 NTSC & PAL)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED                      | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                                      |
|--|------|--------------------------------|--|--------------|---|
| TP703<br>TP705   | PLAY | ALIGNMENT<br>TAPE<br>COLOR BAR | OSCILLOSCOPE   | -----        | VR714<br>(LIM IN RF LEV)<br>VR717<br>(D.O. DET) |
| Step 1.<br>MACHINE CONDITION   |      |                                | SW704 → OFF  |              |   |
| Step 2.<br><br>1. SCOPE : TP703<br>2. Adjust VR714 so that the RF level (A) becomes $50 \pm 5\text{mVp-p}$ as shown in figure.   |      |                                | <div> <div>⊗ VR714</div> <div> <div>TP703</div>  <div>A</div> </div> <div>A = <math>50 \pm 5\text{mVp-p}</math></div> </div> |              |   |
| Step 3.<br><br>1. SCOPE SETTING : AC Mode<br>2. SCOPE : TP705<br>3. Adjust VR717 so that (A) level equals (B) level.<br>4. After that adjust VR714 so that the RF level becomes $300 \pm 20\text{mVp-p}$ at TP703. |      |                                | <div> <div>⊗ VR717</div> <div> <div>TP705</div>  <div> <div>A</div> <div>B</div> </div> </div> </div>                      |              |   |
| Step 4.<br><br>SW704 : - NTSC : OFF<br>PAL : ON<br><br>Note [NTSC] :<br>The Chroma Super Limiter Function is<br>is not used in NTSC model.   |      |                                |  |              |   |

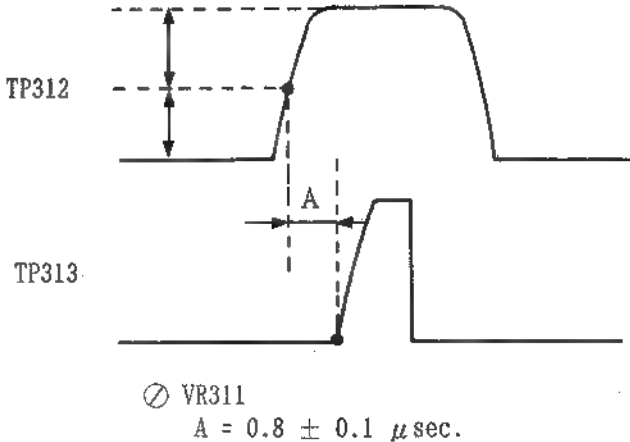
# 12-24. TRACKING METER ADJUSTMENT (FOR AU-65/63/62 NTSC & PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED              | M.EQ.  | INPUT SIGNAL | ADJUSTMENT |
|---|------|------------------------|--|--------------|------------|
| TRACKING<br>METER   | PLAY | ALIGNMENT<br>COLOR BAR | -----  | -----        | VR312      |
| <p>1. Adjust VR312 so that the TRACKING METER indicates 100% point.</p> |      |                        |  |              |            |

# 12-2 . Y S/H PULSE ADJUSTMENT (FOR AU-65/63/62 PAL)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED          | M.EQ.  | INPUT SIGNAL | ADJUSTMENT      |
|--|------|--------------------|--|--------------|-----------------|
| TP312<br>TP313   | PLAY | ALIGNMENT<br>SWEEP | OSCILLOSCOPE   | -----        | VR311 (S/H POS) |
| <p>Note:<br/>This adjustment is PAL model only.</p> <p>1. Adjust VR311 as shown in figure.</p> |      |                    |  |              |                 |


12-26. Y 3.375MHz B.P.F ADJUSTMENT  
(FOR AU-65/63/62 PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED       | M.EQ.        | INPUT SIGNAL | ADJUSTMENT    |
|---|------|-----------------|--------------|--------------|---------------|
| TP312   | PLAY | ALIGNMENT SWEEP | OSCILLOSCOPE | -----        | VL303 (VR326) |
| Note:<br>This adjustment is PAL model only.   |      |                 |              |              |               |
| Step 1.<br><br>1. Connect the scope TP312 and set VR326 so that signal level at TP312 is minimum.<br><br>2. Adjust VL303 so that the signal peak is 3.375MHz. |      |                 |              |              |               |

12-27. Y AUTO EQ FREQUENCY CHARACTERISTIC ADJUSTMENT (1) (FOR AU-65/62 PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED       | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                              |
|---|------|-----------------|---|--------------|---|
| TP317<br>COMPONENT<br>Y OUT   | PLAY | ALIGNMENT SWEEP | OSCILLOSCOPE<br>AND<br>WAVE FORM<br>MONITOR   | -----        | VR326 (A EQ PS)<br>VR329 (A EQ R/P BAL) |
| Note:<br>This adjustment is PAL model only.   |      |                 |   |              |   |
| Step 1.<br><br>1. Set the machine condition SW306 "ON" and SW305 "OFF" mode.  |      |                 | SW306 -----> ON<br>(A EQ SW)<br>SW305 -----> OFF<br>(A EQ VAR)  |              |   |
| Step 2.<br><br>1. Set the oscilloscope DC mode and playback alignment tape sweep portion.<br>2. Adjust VR329 and VR326 so that the channel DC difference is minimum (less than 0.5V) and center level of DC difference is GND at TP317. |      |                 | TP317<br><br>⊙ VR329 A = MINIMUM<br>⊙ VR326 B = C |              |   |

|   |   |
|---|---|
| <p>Step 3.</p> <ol style="list-style-type: none"> <li>1. Confirm COMPONENT Y OUT waveform by waveform monitor so that the frequency characteristic is not change with SW306 "ON" and "OFF".</li> <li>2. If it is not same frequency characteristic with SW306 "ON" and "OFF", readjust Step 2.</li> </ol> |   |
| <p>Step 4.</p> <ol style="list-style-type: none"> <li>1. After adjustment reset the SW305 and the SW306 user setting mode.</li> </ol> <p>Note:<br/>Initial setting in factory is SW305 and SW306 "OFF" mode.</p>  | <p>SW305, SW306 → USER SETTING MODE</p> |

# 12-28. Y AUTO EQ FREQUENCY CHARACTERISTIC ADJUSTMENT (2) (FOR AU-63 PAL)

( W3 MOD & DEMOD )

| TEST POINT   | MODE | TAPE USED          | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                             |
|--|------|--------------------|--|--------------|--|
| TP317<br>COMPONENT<br>Y OUT  | PLAY | ALIGNMENT<br>SWEEP | OSCILLOSCOPE<br>AND<br>WAVE FORM<br>MONITOR  | -----        | VR326 (A EQ PS)<br>VR330 (A EQ DT BAL) |
| Note:<br>This adjustment is PAL model only.  |      |                    |  |              |  |
| Step 1.<br><br>1. Set the machine condition SW306 "ON"<br>and SW305 "OFF" mode.  |      |                    | SW306 -----> ON<br>(A EQ SW)<br>SW305 -----> OFF<br>(A EQ VAR)   |              |  |
| Step 2.<br><br>1. Set the oscilloscope DC mode and<br>playback alignment tape sweep portion.<br>2. Adjust VR330 and VR326 so that the<br>channel DC difference is minimum<br>(less than 0.5V) and center level<br>of DC difference is GND at TP317.              |      |                    | TP317<br><div style="text-align: center;"> </div> <div style="text-align: right;"> ⊗ VR330    A = MINIMUM<br/> ⊗ VR326    B = C </div> |              |  |
| Step 3.<br><br>1. Confirm COMPONENT Y OUT waveform by<br>waveform monitor so that the frequency<br>characteristic is not change with<br>SW306 "ON" and "OFF".<br>2. If it is not same frequency<br>characteristic with SW306 "ON" and<br>"OFF", readjust Step 2. |      |                    |  |              |  |
| Step 4.<br><br>1. After adjustment reset the SW305 and<br>the SW306 user setting mode.<br><br>Note:<br>Initial setting in factory is SW305 and<br>SW306 "OFF" mode.  |      |                    | SW305, SW306 → USER SETTING MODE   |              |  |



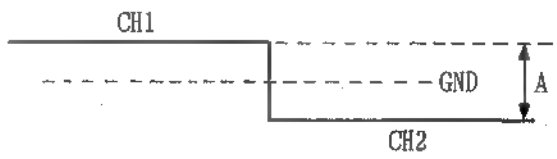
12-29. Y AUTO EQ V MODE CONFIRMATION  
(FOR AU-65/63/62 PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED          | M.EQ.               | INPUT SIGNAL | ADJUSTMENT     |
|---|------|--------------------|---------------------|--------------|----------------|
| COMPONENT<br>Y OUT  | PLAY | ALIGNMENT<br>SWEEP | WAVEFORM<br>MONITOR | -----        | VR327 (A EQ V) |
| <p>Note:<br/>This adjustment is PAL model only.</p> <ol style="list-style-type: none"> <li>1. Set the machine condition SW306 and SW305 "ON" mode.</li> <li>2. Confirm so that frequency characteristic is able to be changed by VR327.</li> <li>3. After adjustment, reset the SW306 and SW305 user setting mode.</li> </ol> |      |                    |                     |              |                |

12-30. Y SELF RECODING AUTO EQ FREQUENCY CHARACTERISTIC  
CONFIRMATION (FOR AU-65 PAL)

( W3 MOD & DEMOD )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL              | ADJUSTMENT                             |
|--|------------------|------------|---|---------------------------|--|
| TP317<br>(on W3<br>P.C.Board)<br>COMPONENT<br>Y OUT  | REC<br>↓<br>PLAY | BLANK TAPE | OSCILLOSCOPE<br>AND<br>WAVEFORM<br>MONITOR  | COMPONENT<br>60%<br>SWEEP | VR503 (Y BU LEV.)<br>(on W4 P.C.Board) |
| <p>Note:<br/>This adjustment AU-65 PAL only.</p>   |                  |            |   |                           |  |
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. Set the machine condition SW306 "ON" and SW305 "OFF" mode.</li> </ol>   |                  |            | <p>SW306 → ON<br/>(A EQ SW)<br/>SW305 → OFF<br/>(A EQ VAR)</p>  |                           |  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. Make a recording sweep signal.</li> <li>2. Then playback the just recording portion.</li> <li>3. Connect the scope to TP317 and confirm that DC level difference is less than 1V and center point of the DC level difference is GND.</li> </ol> |                  |            | <p>TP317</p>  <p>A = Less than 1V</p> |                           |  |

|  |  |
|--|--|
| <p>Step 3.</p> <ol style="list-style-type: none"> <li>1. Connect the waveform monitor to COMPONENT Y OUT and confirm that the frequency characteristic is same with SW306 "ON" and "OFF".</li> <li>2. If it is not same frequency characteristic, adjust VR503 so that the selfrecording and playback frequency characteristic with SW306 "ON" and "OFF" is same.</li> </ol>   |  |
| <p>Step 4.</p> <ol style="list-style-type: none"> <li>1. However if the frequency characteristic is unbalance between CH1 and CH2, adjust VR503 so that the frequency characteristic of two channels average with SW306 "ON" and with SW306 "OFF" are same.<br/>And adjust recording current without channels difference.</li> <li>2. When Step 4 adjustment is done readjust recording frequency adjustment.</li> </ol> |  |


### 12-31. C S/H PULSE ADJUSTMENT (FOR AU-65/63/62 PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED       | M.EQ.  | INPUT SIGNAL | ADJUSTMENT      |
|---|------|-----------------|--|--------------|-----------------|
| TP709<br>TP710  | PLAY | ALIGNMENT SWEEP | OSCILLOSCOPE   | -----        | VR726 (S/H POS) |
| <p>Note:<br/>This adjustment is PAL model only.</p> <ol style="list-style-type: none"> <li>1. Adjust VR726 as shown in figure.</li> </ol> |      |                 | <p><math>A = 0.5 \pm 0.1 \mu \text{ sec.}</math></p> |              |                 |

# 12-32.C AUTO EQ FREQUENCY CHARACTERISTIC ADJUSTMENT (FOR AU-65/63/62 PAL)

( W3 MOD & DEMOD )


| TEST POINT  | MODE | TAPE USED          | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                              |
|---|------|--------------------|---|--------------|---|
| TP712<br><br>COMPONENT<br>Pb OUT  | PLAY | ALIGNMENT<br>SWEEP | OSCILLOSCOPE<br>AND<br>WAVEFORM<br>MONITOR  | -----        | VR723 (A EQ PS)<br><br>VR725 (A EQ BAL) |
| Note:<br>This adjustment is PAL model only.   |      |                    |   |              |   |
| Step 1.<br><br>1. Set the machine condition SW306 "ON"<br>and SW305 "OFF".  |      |                    | SW306 → ON<br>(A EQ SW)<br>SW305 → OFF<br>(A EQ VAR)  |              |   |
| Step 2.<br><br>1. Set the oscilloscope DC mode and<br>playback alignment tape sweep portion.<br>2. Adjust VR725 and VR723 so that the<br>channel DC difference is minimum (less<br>than 0.5V) and center level of DC<br>difference is GND at TP721.               |      |                    | TP712<br><br><br><br>⊙ VR725    A = MINIMUM<br>⊙ VR723    B = C |              |   |
| Step 3.<br><br>1. Confirm COMPONENT Pb OUT waveform<br>by waveform monitor so that the<br>frequency characteristic is not<br>change with SW306 "ON" and "OFF".<br>2. If it is not same frequency<br>characteristic with SW306 "ON" and<br>"OFF", readjust Step 2. |      |                    |   |              |   |
| Step 4.<br><br>1. After adjustment reset the SW305 and<br>the SW306 user setting mode.<br><br>Note:<br>Initial setting in factory is SW305 and<br>SW306 "OFF".  |      |                    | SW305, SW306 → USER SETTING MODE  |              |   |

12-33. C AUTO EQ V MODE CONFIRMATION  
(FOR AU-65/63/62 PAL)

( W3 MOD & DEMOD )

| TEST POINT  | MODE | TAPE USED          | M.EQ.               | INPUT SIGNAL | ADJUSTMENT     |
|---|------|--------------------|---------------------|--------------|----------------|
| COMPONENT<br>Pb OUT   | PLAY | ALIGNMENT<br>SWEEP | WAVEFORM<br>MONITOR | -----        | VR724 (A EQ V) |
| <p>Note:<br/>This adjustment is PAL model only.</p> <ol style="list-style-type: none"> <li>1. Set the machine condition SW306 and SW305 "ON" mode.</li> <li>2. Confirm so that frequency characteristic is able to be change by VR724</li> <li>3. After adjustment, reset the SW306 and SW305 user setting mode.</li> </ol> |      |                    |                     |              |                |

12-34. C SELF RECODING AUTO EQ FREQUENCY CHARACTERISTIC  
CONFIRMATION (FOR AU-65 PAL) ( W3 MOD & DEMOD )

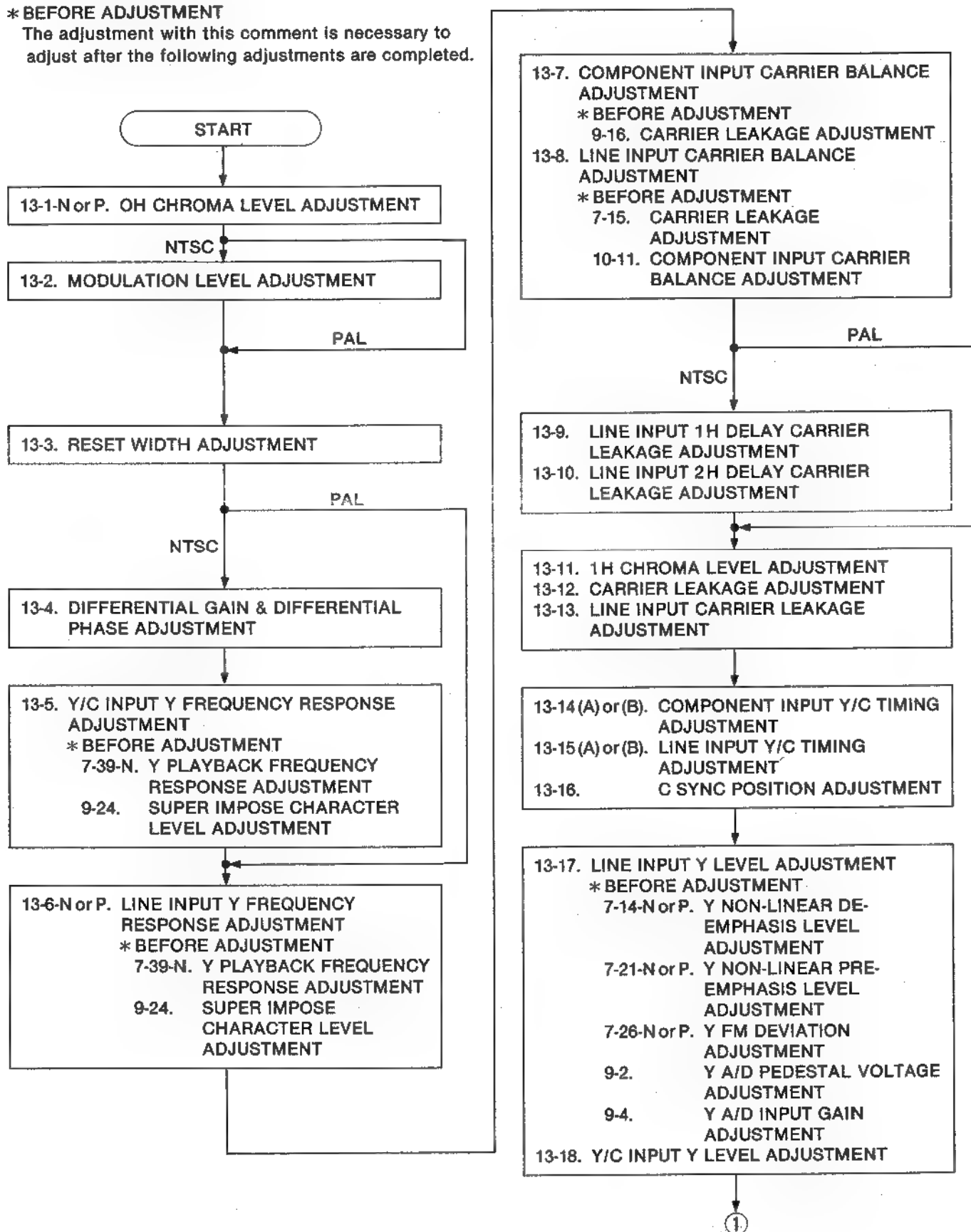
| TEST POINT   | MODE             | TAPE USED  | M.EQ.  | INPUT SIGNAL              | ADJUSTMENT                             |
|--|------------------|------------|--|---------------------------|--|
| TP712<br>(on W3<br>P.C.Board)<br>COMPONENT<br>Pb OUT   | REC<br>↓<br>PLAY | BLANK TAPE | OSCILLOSCOPE<br>AND<br>WAVEFORM<br>MONITOR   | COMPONENT<br>60%<br>SWEEP | VR504 (C BU LEV.)<br>(on W4 P.C.Board) |
| Note:<br>This adjustment AU-65 PAL only.   |                  |            |  |                           |  |
| Step 1.<br>1. Set the machine condition SW306 "ON"<br>and SW305 "OFF" mode.  |                  |            | SW306 -----> ON<br>(A EQ SW)<br>SW305 -----> OFF<br>(A EQ VAR)   |                           |  |
| Step 2.<br>1. Make a recording sweep signal.<br>2. Then playback the just recording<br>portion.<br>3. Connect the scope to TP712 and<br>confirm that DC level difference is<br>less than 1V and center point of the<br>DC level difference is GND.   |                  |            |  <p>A = Less than 1V</p> |                           |  |
| Step 3.<br>1. Connect the waveform monitor to<br>COMPONENT Pb OUT and confirm that the<br>frequency characteristic is same with<br>SW306 "ON" and "OFF".<br>2. If it is not same frequency<br>characteristic, adjust VR504 so that<br>the selfrecording and playback<br>frequency characteristic with SW306<br>"ON" and "OFF" is same.   |                  |            |  |                           |  |
| Step 4.<br>1. However if the frequency characteristic<br>is unbalance between CH1 and CH2,<br>adjust VR504 so that the frequency<br>characteristic of two channels average<br>with SW306 "ON" and with SW306 "OFF"<br>are same.<br>And adjust recording current without<br>channels difference.<br>2. When Step 4 adjustment is done readjust<br>recording frequency adjustment. |                  |            |  |                           |  |
| Step 5.<br>1. After adjustment reset the SW305 and<br>the SW306 user setting mode.<br><br>Note:<br>Initial setting in factory is SW305 and<br>SW306 "OFF".   |                  |            | SW305, SW306 → USER SETTING MODE   |                           |  |

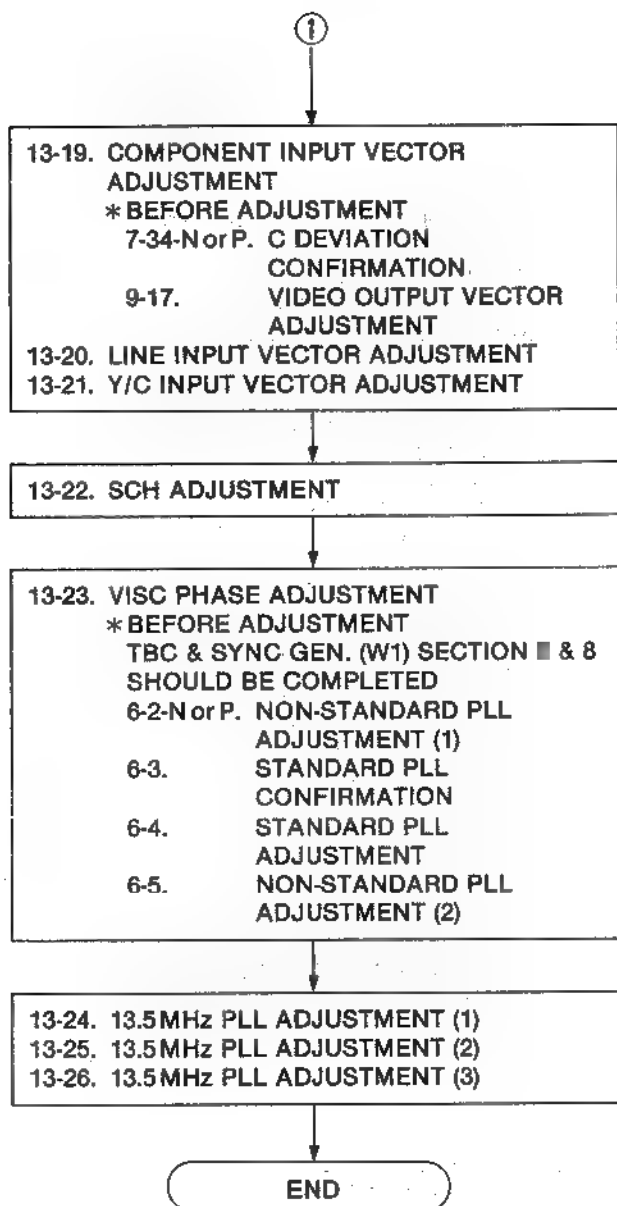
# 13. DECODER & CTCM (W4) BOARD (2/2)

## DECODER & CTCM SECTION (2/2) (W4) FLOWCHART FOR AU-65

### \* BEFORE ADJUSTMENT

The adjustment with this comment is necessary to adjust after the following adjustments are completed.

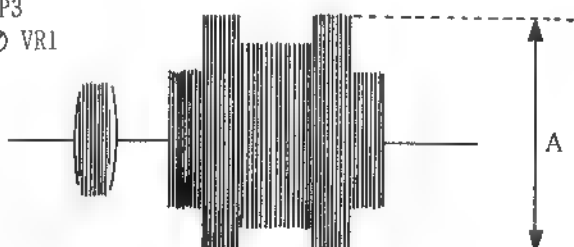




### 13. DECODER & CTCM (W4) BOARD (2/2)


#### 13-1-N. OH CHROMA LEVEL ADJUSTMENT (FOR AU-65 NTSC)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                   | ADJUSTMENT       |
|--|----------------|-----------|--|--------------------------------|------------------|
| TP3  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | LINE INPUT<br>75%<br>COLOR BAR | VR1 (INPUT LEV.) |
| Step 1.<br><br>1. SCOPE : TP3<br><br>2. Adjust VR1 so that the level (A) is $0.8 \pm 0.01\text{Vp-p}$ as shown in figure.<br><br>NOTE:<br>BAND WIDTH FILTER of SCOPE = 20MHz |                |           | <div style="text-align: center;"> <p>TP3<br/>⊗ VR1</p>  <p><math>A = 0.8 \pm 0.01\text{Vp-p}</math></p> </div> |                                |                  |

#### 13-1-P. OH CHROMA LEVEL ADJUSTMENT (FOR AU-65 PAL)

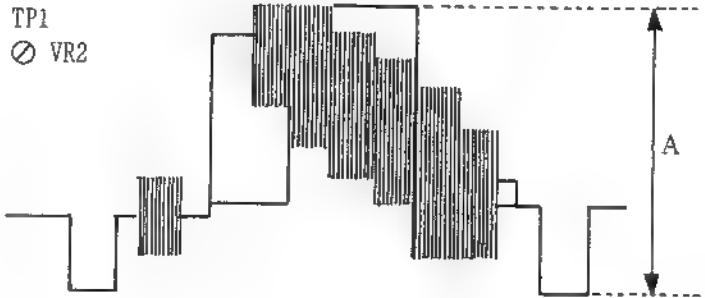
( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                    | ADJUSTMENT       |
|---|----------------|-----------|---|---------------------------------|------------------|
| TP3   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | LINE INPUT<br>100%<br>COLOR BAR | VR1 (INPUT LEV.) |
| Step 1.<br><br>1. SCOPE : TP3<br><br>2. Adjust VR1 so that the level (A) is $1.14 \pm 0.01\text{Vp-p}$ as shown in figure.<br><br>Note:<br>BAND WIDTH FILTER of SCOPE = 20MHz |                |           | <div style="text-align: center;"> <p>TP3<br/>⊗ VR1</p>  <p><math>A = 1.14 \pm 0.01\text{Vp-p}</math></p> </div> |                                 |                  |



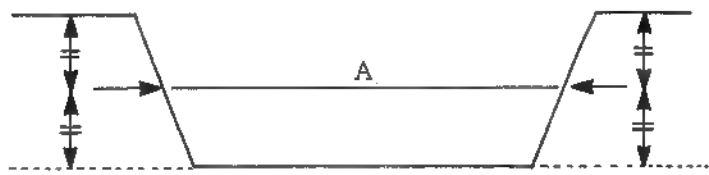
### 13-2. MODULATION LEVEL ADJUSTMENT (FOR AU-65 NTSC)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                   | ADJUSTMENT      |
|--|----------------|-----------|---|--------------------------------|-----------------|
| TP1  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | LINE INPUT<br>75%<br>COLOR BAR | VR2 (MOD. LEV.) |
| <p>Note:<br/>This adjustment is NTSC only.</p> <p>Step 1.</p> <p>1. SCOPE : TP1</p> <p>2. Adjust VR2 so that the level (A) is <math>0.6 \pm 0.01V_{p-p}</math> as shown in figure.</p> |                |           | <p>TP1<br/>⊗ VR2</p>  <p><math>A = 0.6 \pm 0.01V_{p-p}</math></p> |                                |                 |

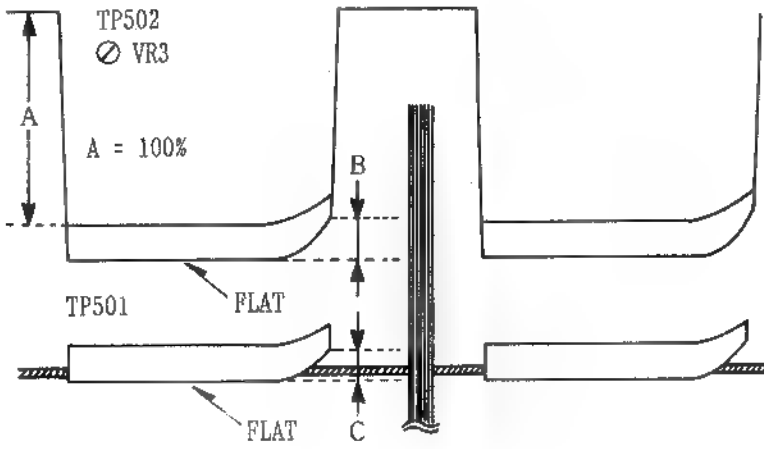
### 13-3. RESET WIDTH ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL            | ADJUSTMENT   |
|--|----------------|-----------|---|-------------------------|--------------|
| IC401<br>Pin 12  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | LINE INPUT<br>COLOR BAR | VR403 (RSTW) |
| <p>Step 1.</p> <p>1. SCOPE : IC401</p> <p>2. Adjust VR403 so that the pulse width (A) is <math>4.0 \pm 0.05 \mu\text{sec}</math> as shown in figure.</p> |                |           | <p>IC401 Pin 12<br/>⊗ VR403</p>  <p><math>A = 4.0 \pm 0.05 \mu\text{sec}</math></p> |                         |              |

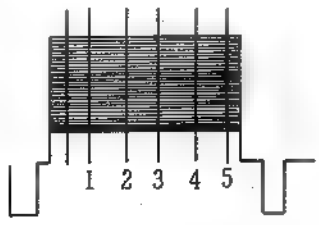
### 13-4. DIFFERENTIAL GAIN & DIFFERENTIAL PHASE ADJUSTMENT (FOR AU-65 NTSC)

( W4 DEC & CTCM )

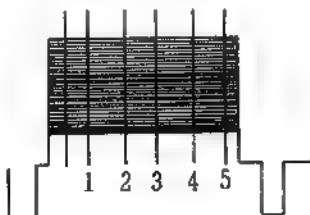
| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                                     | ADJUSTMENT |
|--|----------------|-----------|---|--|------------|
| TP501<br>TP502   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPOSITE<br>80IRE MOD. RAMP<br>TO<br>LINE INPUT | VR3 (LIN.) |
| <p>Note:<br/>This adjustment is NTSC only.</p> <p>Step 1.</p> <ol style="list-style-type: none"> <li>SCOPE CH1 : TP501<br/>SCOPE CH2 : TP502</li> <li>Adjust VR3 so that the B and C are flat.</li> <li>Confirm that the B and C are less than 1.5% against the level (A).</li> <li>If it is not, readjust VR3.</li> </ol> |                |           |  |  |            |

### 13-5. Y/C INPUT Y FREQUENCY RESPONSE ADJUSTMENT (FINE) (FOR AU-65 NTSC)


( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT              |
|---|----------------|-----------|--|------------------------|-------------------------|
| COMPONENT<br>Y OUT  | E-E<br>(EJECT) | -----     | WAVEFORM<br>MONITOR<br>OR<br>SCOPE   | H SWEEP<br>(Y/C INPUT) | VC201 (Y/C FREQ. RESP.) |
| <p>Note:<br/>This adjustment is NTSC only.</p> <p>Step 1.</p> <p>MACHINE CONDITION</p>  |                |           | <ol style="list-style-type: none"> <li>INPUT SELECT : Y/C side<br/>(on Pull Out Drawer)</li> <li>YC/COMPONENT SELECT : YC side<br/>(on Front Sub Panel)</li> </ol> |                        |                         |
| <p>Step 2.</p> <p>The following adjustments should be completed before this adjustment.</p> <ol style="list-style-type: none"> <li>7-39-N Y PLAYBACK FREQUENCY RESPONSE ADJ. (W3)</li> <li>9-24 Y OUT FREQUENCY RESPONSE ADJ. (W2)</li> </ol> |                |           | <p>Y OUT</p>  <p>0.1MHZ : 4MHZ = 100 : 100 ± 2</p>                            |                        |                         |

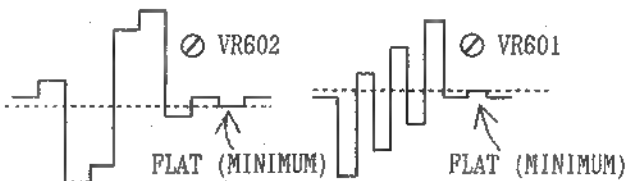
**13-6-N. LINE INPUT Y FREQUENCY RESPONSE ADJUSTMENT**  
**(FINE) (FOR AU-65 NTSC)** ( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL            | ADJUSTMENT    |
|---|----------------|-----------|---|-------------------------|---------------|
| COMPONENT<br>Y OUT  | E-E<br>(EJECT) | -----     | WAVEFORM<br>MONITOR<br>OR<br>SCOPE  | H SWEEP<br>(LINE INPUT) | VC1<br>(FREQ) |
| Note:<br>This adjustment is NTSC mode only.<br><br>Step 1.<br>MACHINE CONDITION   |                |           | INPUT SELECT : LINE   |                         |               |
| Step 2.<br>Note:<br>The following adjustments should be completed before this adjustment.<br>1) 7-39-N Y PLAYBACK FREQUENCY<br>RESPONSE ADJ. (W3)<br>2) 9-24 Y OUT FREQUENCY<br>RESPONSE ADJ. (W2)<br>3) 13-5 Y/C INPUT Y FREQUENCY<br>RESPONSE ADJ. (W4) |                |           |  <p>0.1MHz : 4MHz = 100 : 100 ± 2</p> |                         |               |

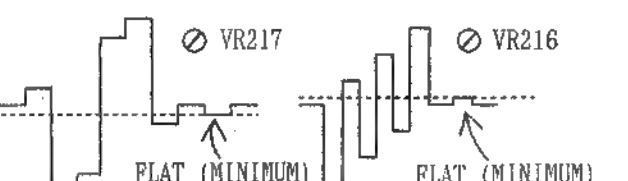
**13-6-P. LINE INPUT Y FREQUENCY RESPONSE ADJUSTMENT**  
**(FINE) (FOR AU-65 PAL)** ( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL          | ADJUSTMENT        |
|--|----------------|-----------|--|-----------------------|-------------------|
| VIDEO 2<br>OUT   | E-E<br>(EJECT) | -----     | WAVEFORM<br>MONITOR<br>OR<br>SCOPE   | SWEEP<br>(LINE INPUT) | VC201<br>(Y FREQ) |
| Step 1.<br>MACHINE CONDITION   |                |           | INPUT SELECT : LINE<br><br>Connect a jumper wire between P15 and GND on W2 P.C.Board to out chroma signal.                             |                       |                   |
| Step 2.<br>Note:<br>The following adjustments should be completed before this adjustment.<br>1) 7-39-P Y PLAYBACK FREQUENCY<br>RESPONSE ADJ. (W3)<br>2) 9-24 Y OUT FREQUENCY<br>RESPONSE ADJ. (W2) |                |           |  <p>5 M H z</p> <p>0.1 ~ 5MHz : FLAT (± 1.0dB)</p> |                       |                   |

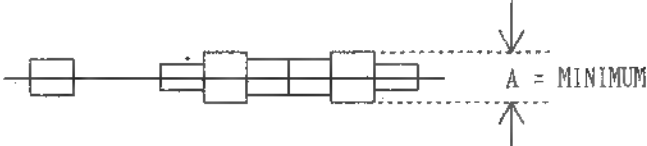
**13-7. COMPONENT INPUT CARRIER BALANCE ADJUSTMENT (FINE) (FOR AU-65 NTSC & PAL)** ( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL           | ADJUSTMENT                                   |
|---|----------------|-----------|---|------------------------|--|
| COMPONENT<br>Pr/Pb<br>OUT   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | COMPONENT<br>COLOR BAR | VR601 (Pb CLAMP REF)<br>VR602 (Pr CLAMP REF) |
| <p>Step 1.</p> <p>CARRIER LEAKAGE ADJ. (9-16) (W2) should be completed.</p> |                |           | <p>(PR OUT) (PB OUT)</p>  |                        |  |

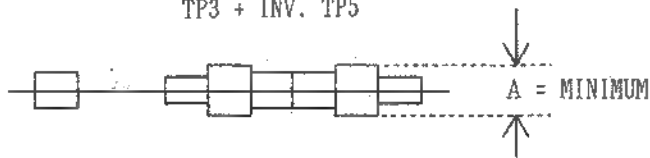
**13-8. LINE INPUT CARRIER BALANCE ADJUSTMENT (FINE) (FOR AU-65 NTSC & PAL)** ( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL            | ADJUSTMENT                             |
|--|----------------|-----------|---|-------------------------|--|
| COMPONENT<br>Pr/Pb<br>OUT  | E-E<br>(EJECT) | -----     | WAVEFORM<br>MONITOR   | LINE INPUT<br>COLOR BAR | VR216 (Pb BLK DC)<br>VR217 (Pr BLK DC) |
| <p>Step 1.</p> <p>The following adjustments should be completed before this adjustment.</p> <p>1) CARRIER LEAKAGE ADJ. (9-16) (W2)<br/>2) COMPONENT INPUT CARRIER<br/>BALANCE ADJ. (13-7) (W4)</p> |                |           | <p>(PR OUT) (PB OUT)</p>  |                         |  |

**13-9. LINE INPUT 1H DELAY CARRIER LEAKAGE ADJUSTMENT**  
**(FINE) (FOR AU-65 NTSC)** ( W4 DEC & CTCM )

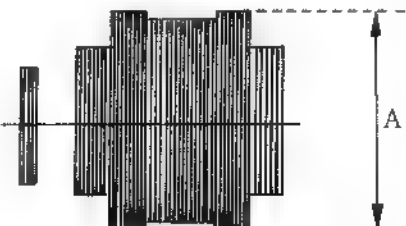
| TEST POINT   | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                   | ADJUSTMENT                     |
|--|-------|-----------|--|--------------------------------|--------------------------------|
| TP3<br>TP4   | EJECT | -----     | OSCILLOSCOPE   | LINE INPUT<br>75%<br>COLOR BAR | VR6 (1H DELAY)<br>VR7 (1H LEV) |
| Note:<br>This adjustment is NTSC only.<br><br>1. SCOPE CH1 : TP3<br>SCOPE CH2 : TP4<br>Set CH1 & CH2's range to be equal VOLTS/DIV.<br>2. Set the scope CH2 to INV mode and select<br>ADD mode.<br>3. Adjust VR6 and VR7 so that the level (A)<br>is minimized as shown in figure. |       |           | ⌀ VR6, VR7<br><br>TP3 + INV. TP4<br><br> |                                |                                |

**13-10. LINE INPUT 2H DELAY CARRIER LEAKAGE ADJUSTMENT**  
**(FINE) (FOR AU-65 NTSC)** ( W4 DEC & CTCM )

| TEST POINT  | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                   | ADJUSTMENT                     |
|---|-------|-----------|--|--------------------------------|--------------------------------|
| TP3<br>TP5  | EJECT | -----     | OSCILLOSCOPE   | LINE INPUT<br>75%<br>COLOR BAR | VR8 (2H DELAY)<br>VR9 (2H LEV) |
| Note:<br>This adjustment is NTSC only.<br><br>1. SCOPE CH1 : TP3<br>SCOPE CH2 : TP5<br>Set CH1 & CH2's range to be equal VOLTS/DIV.<br>2. Set the scope CH2 to INV mode and select<br>ADD mode. |       |           | ⌀ VR8, VR9<br><br>TP3 + INV. TP5<br><br> |                                |                                |

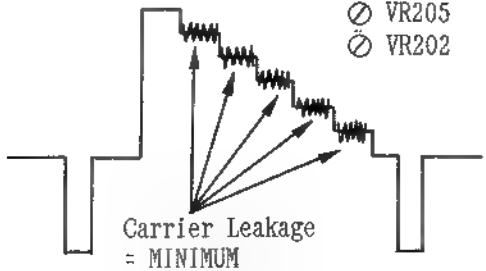
### 13-11. 1H CHROMA LEVEL ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL  | ADJUSTMENT     |
|---|----------------|-----------|---|---|----------------|
| TP202   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE  | LINE INPUT<br>COLOR BAR<br><br>(NTSC 75%)<br>(PAL 100%) | VR204 (C LEV.) |
| Step 1.<br><br>1. SCOPE CH1 : TP202<br><br>2. Adjust VR204 so that the level (A) is<br>NTSC $1.1 \pm 0.05\text{Vp-p}$<br>PAL $1.4 \pm 0.05\text{Vp-p}$<br><br>Note:<br>BAND WIDTH FILTER of SCOPE = 20MHz |                |           | TP202 $\odot$ VR204<br><br> |   |                |

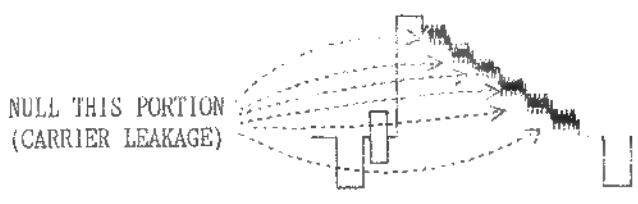
### 13-12. CARRIER LEAKAGE ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL            | ADJUSTMENT                                  |
|---|----------------|-----------|--|-------------------------|---|
| COMPONENT<br>Y OUT  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | LINE INPUT<br>COLOR BAR | SW201<br>VR205 (C REJ.)<br>VR202 (1H V TMG) |
| Step 1.<br><br>MACHINE CONDITION<br>( STD mode )  |                |           | 1. Set-up Menu No. 1011 $\rightarrow$ 00 FRONT SWITCH<br><br>2. Input signal is standard signal from signal generator. |                         |   |
| Step 2.<br><br>1. SCOPE CH1 : COMPONENT Y OUT<br><br>2. SW201 : ADJ. side<br><br>3. Adjust VR205 and VR202 and nullify the carrier leakage.<br><br>4. SW201 : NORM side |                |           | TP504<br><br>                      |                         |   |

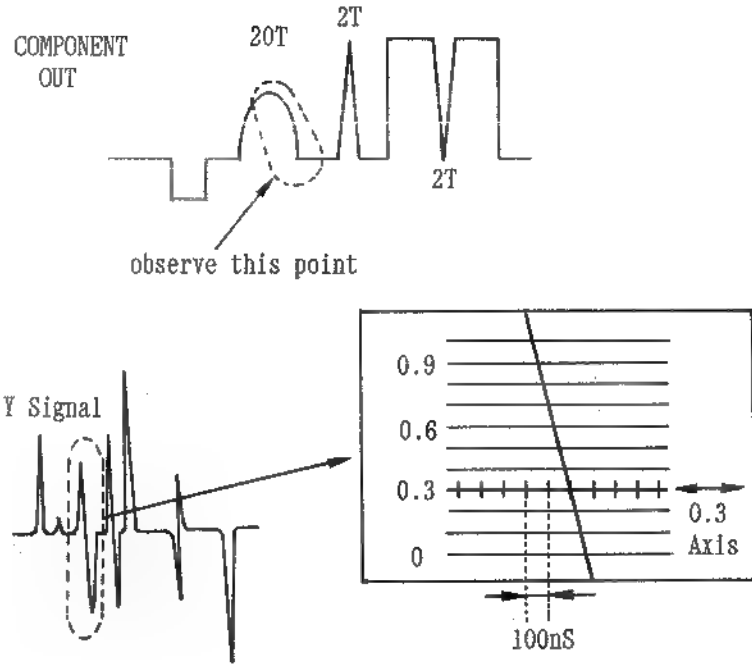
**13-13. LINE INPUT CARRIER LEAKAGE ADJUSTMENT**  
**( FINE ) ( 3 ) ( FOR AU-65 NTSC & PAL )**

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL         | ADJUSTMENT   |
|---|----------------|-----------|--|----------------------|--|
| COMPONENT<br>Y OUT<br><br>TP201   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | LINE IN<br>COLOR BAR | SW201<br>VR203 (1H ADJ)<br>VR205 (C REJ)<br>VR202 (1HV TMG)<br>VR10 (NSTD C LEV) |
| Step 1.<br><br>MACHINE CONDITION<br>( STD mode )  |                |           | 1. Set-up Menu No. 1011 → 00 FRONT SWITCH<br><br>2. Input signal is standard signal from signal generator.                           |                      |  |
| Step 2.<br><br>1. SCOPE : COMPONENT Y OUT<br><br>2. SW201 : NORM side<br><br>• Adjust VR203 and VR205 so that the carrier leakage is minimized (Less than 10mVp-p).<br><br>• SCOPE : TP201<br><br>• Adjust VR202 so that the DC level is $0 \pm 0.1\text{Vp-p}$ . |                |           | VR203, VR205, VR10<br><br>COMPONENT Y OUT<br><br> |                      |  |
| Step 3. (NTSC only)<br><br>MACHINE CONDITION<br>( NSTD mode )   |                |           | 1. Set-up Menu No. 1011 → 01 NON-STD   |                      |  |
| Step 4. (NTSC only)<br><br>1. SCOPE : COMPONENT Y OUT<br><br>2. Adjust VR10 so that the carrier leakage is minimized (Less than 10mVp-p).   |                |           |  |                      |  |

**13-14 (A) . COMPONENT INPUT Y/C TIMING ADJUSTMENT  
( FINE ) ( BY USING WAVEFORM MONITOR )  
( FOR AU-65 NTSC & PAL )**

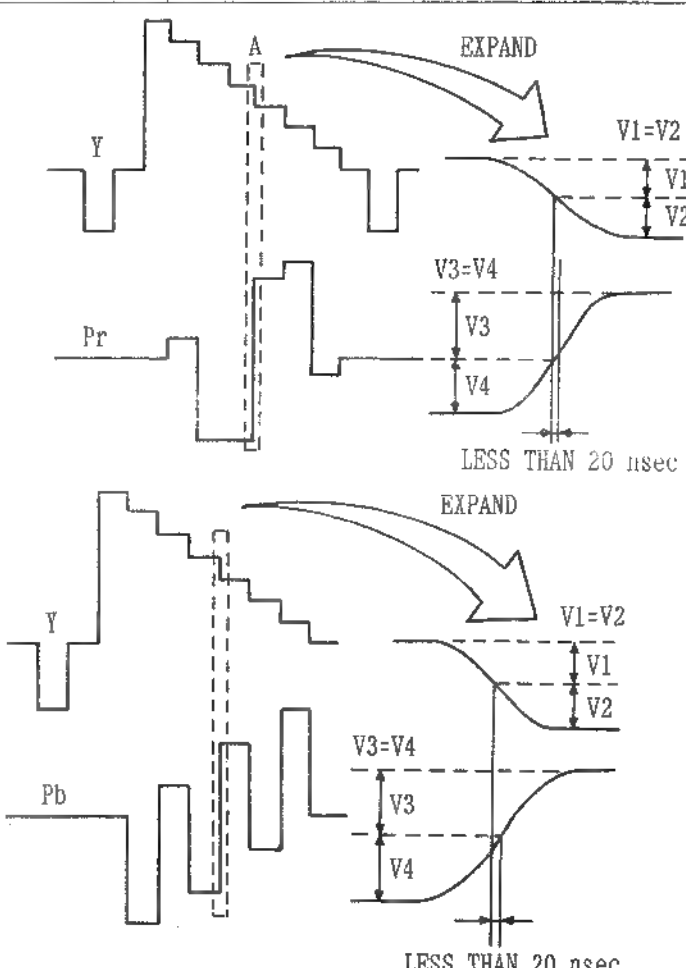
( W4 DEC & CTCM )

| TEST POINT   | MODE             | TAPE USED     | M.EQ.   | INPUT SIGNAL                           | ADJUSTMENT         |
|--|------------------|---------------|---|--|--------------------|
| COMPONENT<br>Y OUT<br>Pb OUT<br>Pr OUT   | SELF<br>REC/PLAY | BLANK<br>TAPE | WAVEFORM<br>MONITOR   | COMPONENT<br>PULSE & BAR<br>(MOD. 20T) | VR505<br>(Y/C TMG) |
| <p>Step 1.</p> <p>1. WAVEFORM MONITOR CONDITION</p>  |                  |               | <p>RESPONSE : DIFFD STEP</p> <p>VOLTS FULL SCALE : MAX (UNCAL)</p> <p>DISPLAY : <math>\times 1</math> (5)</p> <p>MAGNIFIER : <math>\times 50</math> (0.1)</p> <p>TRIGGER : VIDEO OUT OF VTR</p> |  |                    |
| <p>Step 2.</p> <p>1. Make a recording, then play back the recorded portion.</p> <p>2. WFM MONITOR</p> <p>CHA : COMPONENT Y OUT</p> <p>CHB : COMPONENT Pr (Pb) OUT</p> <p>EXT SYNC CH1 : VIDEO OUT</p> <p>CH2 : VIDEO OUT</p> <p>3. COMPONENT OUTPUT CABLE LENGTH : Same Length</p> <p>4. Observe the falling portion of modulated 20T pulse signal.</p> <p>5. Adjust the vertical and horizontal position of WFM Monitor so that the center of falling edge is set to 0.3 axis as shown in figure.</p> <p>6. Change the Input Select of WFM Monitor from A ch (COMPONENT Y OUT) to B ch (COMPONENT Pr OUT).</p> <p>7. Measure the difference between Y and Pr (Pb) signal timing.</p> <p>8. If it is not within <math>\pm 20\text{nsec}</math>, readjust VR505 and repeat item 1 to 8 of Step 2.</p> |                  |               |    |  |                    |



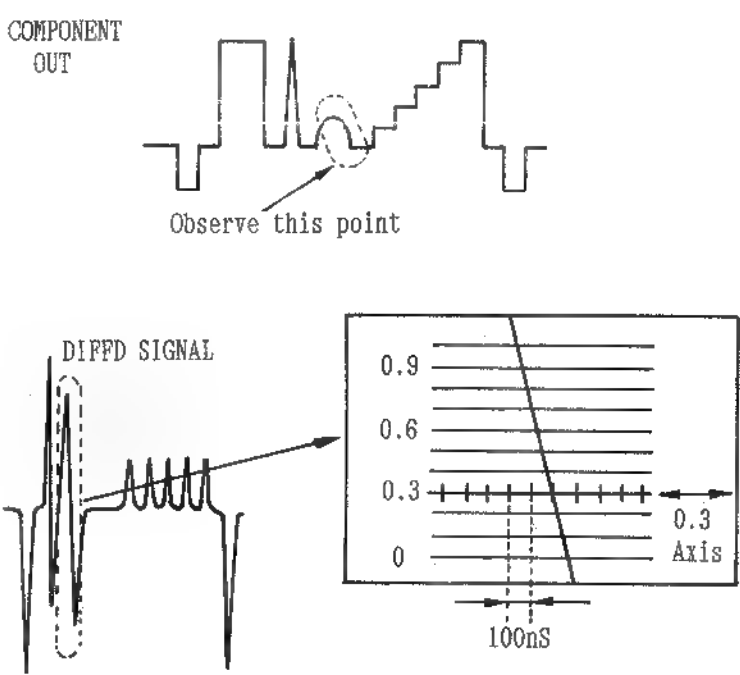
**13-14(B) . COMPONENT INPUT Y/C TIMING ADJUSTMENT  
(FINE) (BY USING OSCILLOSCOPE)  
(FOR AU-65 NTSC & PAL)**

( W4 DEC & CTCM )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL           | ADJUSTMENT         |
|--|------------------|------------|---|------------------------|--------------------|
| COMPONENT<br>Y OUT<br>Pb OUT<br>Pr OUT   | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE  | COMPONENT<br>COLOR BAR | VR505<br>(Y/C TMG) |
| <p>Step 1.</p> <p>1. Make a recording.</p> <p>2. Then play back the recorded portion.</p> <p>3. SCOPE CH1 : COMPONENT Y OUT</p> <p>SCOPE CH2 : COMPONENT Pr (Pb) OUT</p> <p>*Note:<br/>COMPONENT OUTPUT CABLE LENGTH<br/>should be the Same Length.</p> <p>4. Confirm that the Y/C Timing of<br/>component output is less than 20nsec.</p> <p>5. If it is not, readjust VR505 and repeat<br/>from item 1 to 4.</p> |                  |            |  |                        |                    |

**13-15(A) . LINE INPUT Y/C TIMING ADJUSTMENT (FINE)**  
**(BY USING WAVEFORM MONITOR)**  
**(FOR AU-65 NTSC & PAL)**

( W4 DEC & CTCM )

| TEST POINT  | MODE             | TAPE USED     | M.EQ.   | INPUT SIGNAL                           | ADJUSTMENT                       |
|---|------------------|---------------|---|--|----------------------------------|
| COMPONENT<br>Y OUT<br>Pb OUT<br>Pr OUT  | SELF<br>REC/PLAY | BLANK<br>TAPE | WAVEFORM<br>MONITOR   | LINE IN<br>Mod. 12.5T<br>W/RAMP SIGNAL | VR214 (Pr TMG)<br>VR212 (Pb TMG) |
| <p>Step 1.</p> <p>1. WAVEFORM MONITOR CONDITION</p>   |                  |               | <p>RESPONSE : DIFFD STEP</p> <p>VOLTS FULL SCALE : MAX (UNCAL)</p> <p>DISPLAY : <math>\times 1</math> (5)</p> <p>MAGNIFIER : <math>\times 50</math> (0.1)</p> <p>TRIGGER : VIDEO OUT OF VTR</p> |  |                                  |
| <p>Step 2.</p> <p>1. Make a recording then, play back the just recorded portion.</p> <p>2. WFM MONITOR</p> <p>CH A INPUT : COMPONENT Y OUT</p> <p>CH B INPUT : COMPONENT Pr (Pb) OUT</p> <p>EXT SYNC CH A : VIDEO OUT</p> <p>CH B : VIDEO OUT</p> <p>3. Observe the falling portion of modulated 12.5T pulse signal.</p> <p>4. Adjust the vertical and horizontal position of WFM Monitor so that the center of falling edge is set to 0.3 axis as shown in figure.</p> <p>5. Change the Input Select of WFM Monitor from A ch (COMPONENT Y OUT) to B ch (COMPONENT Pr OUT).</p> <p>6. Measure the difference between Y and Pr (Pb) signal timing.</p> <p>7. If it is not within <math>\pm 20\text{nsec}</math>, readjust VR214 (Pr) and VR212 (Pb) and repeat item 1 to 7 of STEP 2.</p> |                  |               |    |  |                                  |

**13-15(B) . LINE INPUT Y/C TIMING ADJUSTMENT (FINE)**  
**(BY USING OSCILLOSCOPE)**  
**(FOR AU-65 NTSC & PAL)**

( W4 DEC & CTCM )

| TEST POINT                             | MODE             | TAPE USED  | M.EQ.        | INPUT SIGNAL         | ADJUSTMENT                       |
|--|------------------|------------|--------------|----------------------|----------------------------------|
| COMPONENT<br>Y OUT<br>Pb OUT<br>Pr OUT | SELF<br>REC/PLAY | BLANK TAPE | OSCILLOSCOPE | LINE IN<br>COLOR BAR | VR214 (Pr TMG)<br>VR212 (Pb TMG) |

**Step 1.**

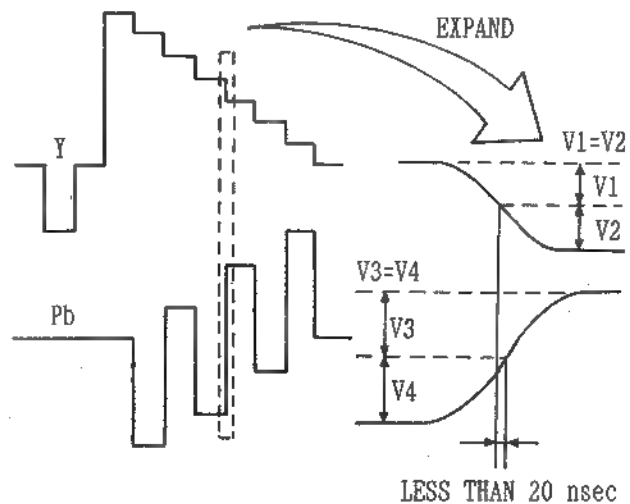
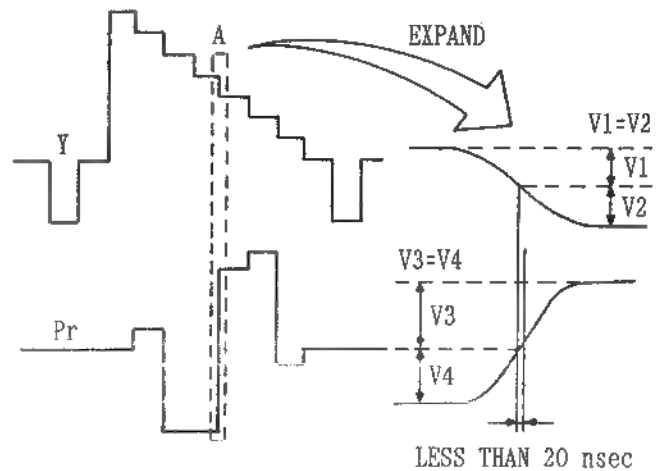
1. Make a recording for a few minutes.
2. Play back the just recorded portion.

3. SCOPE CH1 : COMPONENT  
Y OUT
- SCOPE CH2 : COMPONENT  
Pr (Pb) OUT

**\*Note :**

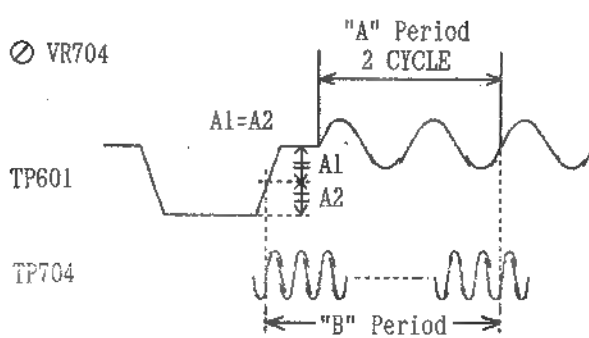
COMPONENT OUTPUT CABLE LENGTH  
should be the Same Length.

4. Confirm that the Y/C Timing of  
component output is less than 20nse.
5. If it is not, readjust VR214 (Pr), VR212  
(Pb) and repeat from item 1 to 4.



**13-16. C SYNC POSITION ADJUSTMENT (FINE)**  
(FOR AU-65 NTSC & PAL)

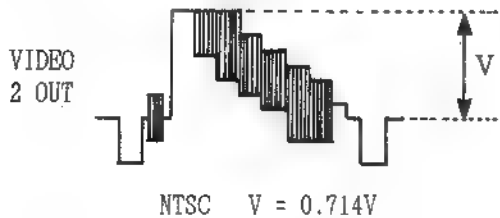
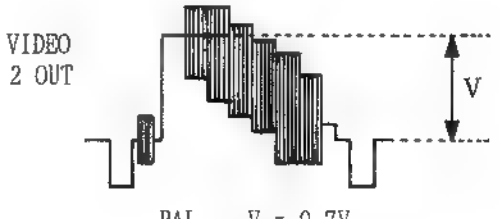
( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL           | ADJUSTMENT       |
|--|----------------|-----------|--|------------------------|------------------|
| TP601<br>TP704   | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | COMPONENT<br>COLOR BAR | VR704 (C SY POS) |
| Step 1.<br>MACHINE CONDITION<br>( STD mode )   |                |           | 1. Set-up Menu No. 1011 → 00 FRONT SWITCH<br>2. Input signal is standard signal from signal generator.                             |                        |                  |
| Step 2.<br><br>1. SCOPE CH1 : TP601<br>SCOPE CH2 : TP704<br>2. Delay the scope at C Sync and Burst portion.<br>3. Adjust VR704 so that the B period is 18 cycles $\pm$ 5 nsec. |                |           |  <p>"B" = 18 cycles <math>\pm</math> 5 nsec</p> |                        |                  |
| Note:<br>When the scope CH1 and CH2 is connected to TP601 and TP704 at the same time, a beat noise occurs the waveform.<br>Please measure the period "A" separately.           |                |           |  |                        |                  |

**13-17. LINE INPUT Y LEVEL ADJUSTMENT (FINE)**  
(FOR AU-65 NTSC & PAL)

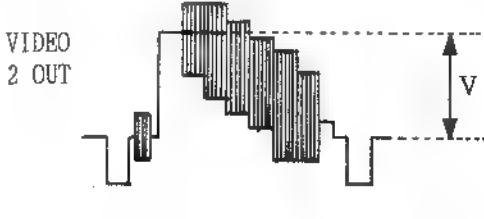
( W4 DEC & CTCM )

| TEST POINT                       | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                                     | ADJUSTMENT    |
|----------------------------------|----------------|-----------|--|--|---------------|
| VIDEO 2<br>OUT                   | E-E<br>(EJECT) | -----     | WAVEFORM<br>MONITOR  | LINE IN<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | VR207 (Y LEV) |
| Step 1.<br><br>MACHINE CONDITION |                |           | The following adjustments should be completed before this adjustment is done.<br>Please confirm them.<br><br>1) Y NON LINEAR DE-EMPHASIS LEVEL (7-14-N or P)<br>2) Y NON LINEAR PRE-EMPHASIS LEVEL (7-21-N or P)<br>3) Y FM DEVIATION (7-26-N or P)<br>4) Y A/D PEDESTAL VOLTAGE (9-2)<br>5) Y A/D INPUT GAIN (9-4)<br>6) VIDEO 2 OUT LEVEL (9-13)<br>7) OH CHROMA LEVEL (13-1-N or P) |  |               |

|  |   |
|--|---|
| <p>Step 2. [ NTSC ]</p> <ol style="list-style-type: none"> <li>1. VIDEO VR : Push In to PRESET POSITION</li> <li>2. Adjust VR207 so that the Video Level (V) becomes <math>0.714 \pm 0.007V_{p-p}</math>.</li> </ol> | <p>⊗ VR207</p>  <p>NTSC <math>V = 0.714V</math></p> |
| <p>Step 2 [ PAL ]</p> <ol style="list-style-type: none"> <li>1. VIDEO VR : Push In to PRESET POSITION</li> <li>2. Adjust VR207 so that the Video Level (V) becomes <math>0.7V \pm 0.007V_{p-p}</math>.</li> </ol>    | <p>⊗ VR206</p>  <p>PAL <math>V = 0.7V</math></p>    |

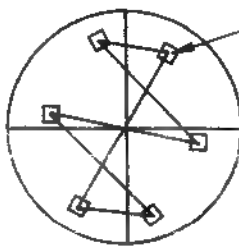
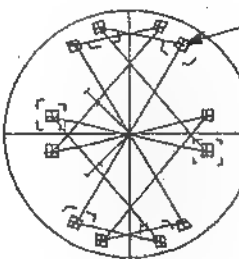
**13-18. Y/C INPUT Y LEVEL ADJUSTMENT (FINE)**  
(FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT  | MODE        | TAPE USED | M.EQ.   | INPUT SIGNAL                           | ADJUSTMENT       |
|---|-------------|-----------|---|--|------------------|
| VIDEO 2 OUT   | E-E (EJECT) | -----     | WAVEFORM MONITOR  | Y/C IN COLOR BAR (NTSC 75%) (PAL 100%) | VR206 (4P Y LEV) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   |             |           | <p>The following adjustments should be completed before this adjustment is done. Please confirm them.</p> <ol style="list-style-type: none"> <li>1) COMPOSITE Y INPUT LEVEL ADJUSTMENT (3-17)</li> <li>2) Y NON LINEAR DE-EMPHASIS LEVEL (7-14-N or P)</li> <li>3) Y NON LINEAR PRE-EMPHASIS LEVEL (7-21-N or P)</li> <li>4) Y FM DEVIATION (7-26-N or P)</li> <li>5) Y A/D PEDESTAL VOLTAGE (9-2)</li> <li>6) Y A/D INPUT GAIN (9-4)</li> <li>7) VIDEO 2 OUT LEVEL (9-13)</li> </ol> |  |                  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. VIDEO VR : Push In to PRESET POSITION</li> <li>2. Adjust VR206 so that the Video Level (V) becomes <math>0.714 \pm 0.007V_{p-p}</math>.</li> </ol> <p>NTSC <math>0.714V (\pm 2\%)</math><br/>PAL <math>0.7V (\pm 2\%)</math></p> |             |           | <p>⊗ VR206</p>  <p>NTSC <math>V = 0.714V (\pm 2\%)</math><br/>PAL <math>V = 0.7V (\pm 2\%)</math></p>   |  |                  |

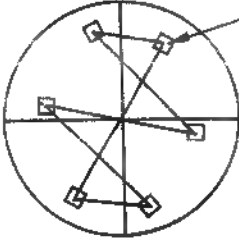
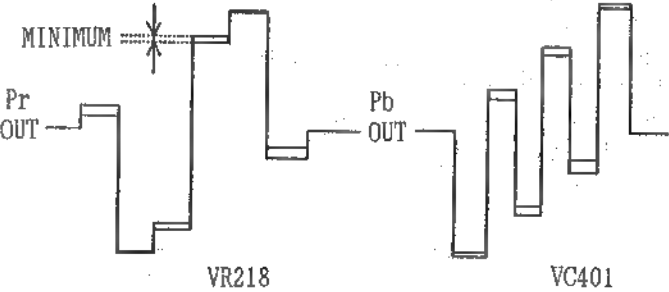
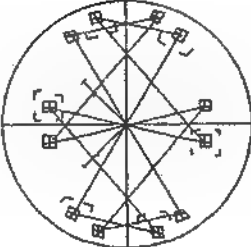
**13-19. COMPONENT INPUT VECTOR ADJUSTMENT (FINE)**  
**(FOR AU-65 NTSC & PAL)**

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                                       | ADJUSTMENT       |
|---|----------------|-----------|--|--|------------------|
| VIDEO 2<br>OUT  | E-E<br>(EJECT) | -----     | VECTOR SCOPE   | COMPONENT<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | VR502 (P6 LEV 2) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   |                |           | <p>The following adjustments should be completed before this adjustment is done.</p> <p>1) C DEVIATION CONFIRMATION (7-34-N or P)</p> <p>2) VIDEO OUTPUT VECTOR (9-17)</p> |  |                  |
| <p>Step 2. [ NTSC ]</p> <p>1. Adjust VR502 so that the each Vector is within its inner box on the Vector scope. (2%)</p>  |                |           | <p>VIDEO 2<br/>OUT</p> <p>⊙ VR502</p>  <p>[ NTSC ] 75%</p>                              |  |                  |
| <p>Step 2. [ PAL ]</p> <p>1. Connect the vector scope to signal generator, and set the vector scope the burst level 100%.</p> <p>2. Reconnect the vector scope to VIDEO 2 OUT on the Rear Panel.</p> <p>1. Adjust VR502 so that the each Vector is within its inner box on the Vector scope. (2%)</p> |                |           | <p>VIDEO 2<br/>OUT</p> <p>⊙ VR502</p>  <p>[ PAL ] 100%</p>                             |  |                  |

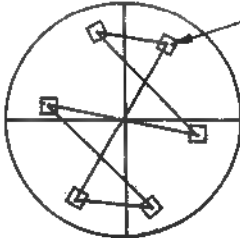
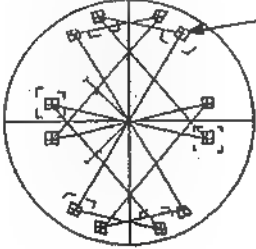
# 13-20. LINE INPUT VECTOR ADJUSTMENT (FINE) (FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                                     | ADJUSTMENT  |
|--|----------------|-----------|--|--|---|
| [NTSC & PAL]<br>VIDEO 2<br>OUT<br>[PAL]<br>COMPONENT<br>Pb, Pr OUT   | E-E<br>(EJECT) | -----     | [NTSC & PAL]<br>VECTOR SCOPE<br>[PAL]<br>WAVEFORM<br>MONITOR   | LINE IN<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | VR213 (Pb LEV 1)<br>VR215 (Pr LEV 1)<br>VR218 (AXIS PHASE)<br>VC401 |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>  |                |           | <p>1. The following adjustments should be completed before this adjustment is done.</p> <p>1) C DEVIATION CONFIRMATION (7-34-N or P)</p> <p>2) VIDEO OUTPUT VECTOR (9-17)</p> <p>3) COMPONENT INPUT VECTOR (13-19)</p> <p>2. VIDEO VR : Push In to PRESET POSITION</p> |  |   |
| <p>Step 2. [ NTSC ]</p> <p>1. Adjust VR213, VR215, VR218 and VC401 so that the each Vector is within its inner box on the Vector Scope. (2%)</p>   |                |           | <p>VIDEO 2<br/>OUT</p> <p>○ VR213<br/>○ VR215<br/>○ VR218<br/>○ VC401</p>  <p>[ NTSC ] 75%</p>  |  |   |
| <p>Step 2. [ PAL ]</p> <p>1. Connect the waveform monitor to COMPONENT Pb and Pr OUT.</p> <p>2. Adjust VR218 and VC401 so that the clouble portion of waveoform is minimum.</p>  |                |           |  <p>VR218 VC401</p>  |  |   |
| <p>Step 3. [ PAL ]</p> <p>1. Connect the vector scope to signal generator, and set the vector scope the burst level 100%.</p> <p>2. Reconnect the vector scope to VIDEO 2 OUT on the Rear Panel.</p> <p>3. Adjust VR213 and VR215 so that the each Vector is within its inner box on the Vector Scope. (2%).</p> |                |           |  <p>[ PAL ] 100%</p>   |  |   |

# 13-21. Y/C INPUT VECTOR ADJUSTMENT (FINE) (FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                                    | ADJUSTMENT       |
|---|----------------|-----------|--|---|------------------|
| VIDEO 2<br>OUT  | E-E<br>(EJECT) | -----     | VECTOR SCOPE   | Y/C IN<br>COLOR BAR<br>(NTSC 75%)<br>(PAL 100%) | VR201 (4P C LEV) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   |                |           | <p>1. The following adjustments should be completed before this adjustment is done.</p> <p>1) C DEVIATION CONFIRMATION (7-34-N or P)</p> <p>2) VIDEO OUTPUT VECTOR (9-17)</p> <p>3) COMPONENT INPUT VECTOR (13-19)</p> <p>4) LINE INPUT VECTOR (13-20)</p> <p>2. INPUT SELECT : Y/C side<br/>(on Pull Out Drawer)</p> <p>3. YC/COMPONENT SELECT : YC side<br/>(on Front Sub Panel)</p> |   |                  |
| <p>Step 2. [ NTSC ]</p> <p>1. Adjust VR201 so that the each vector is within its inner box on the vector scope. (2%)</p>  |                |           | <p>VIDEO 2<br/>OUT</p> <p>⊙ VR201</p>  <p>Inner Box Indicate</p> <p>[ NTSC ]</p>   |   |                  |
| <p>Step 2. [ PAL ]</p> <p>1. Connect the vector scope to signal generator, and set the vector scope the burst level 100%.</p> <p>2. Reconnect the vector scope to VIDEO 2 OUT on the Rear Panel.</p> <p>3. Adjust VR201 so that the each vector is within its inner box on the vector scope. (2%)</p> |                |           | <p>VIDEO 2<br/>OUT</p> <p>⊙ VR201</p>  <p>Inner Box Indicate</p> <p>[ PAL ]</p>  |   |                  |



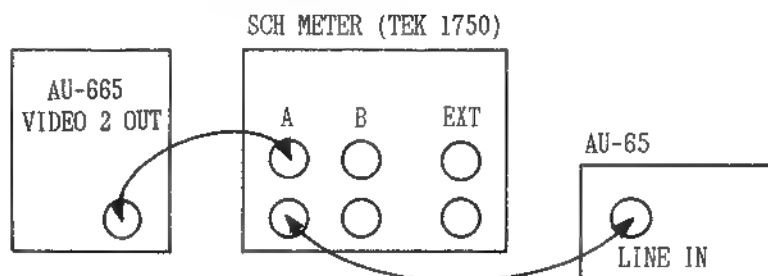
# 13-22-N(A) . SCH ADJUSTMENT (BY USING AU-665) (FOR AU-65 NTSC)

( W4 DEC & CTOM )

| TEST POINT | MODE           | TAPE USED | M.EQ.                      | INPUT SIGNAL                                  | ADJUSTMENT                       |
|------------|----------------|-----------|----------------------------|---|----------------------------------|
| TP404      | E-E<br>(EJECT) | -----     | SCH<br>METER<br>(TEK 1750) | LINE IN<br>COMPOSITE SIGNAL<br>FROM<br>AU-665 | VR401 (SCH - )<br>VR402 (SCH + ) |

Step 1.

CONNECTION METHOD



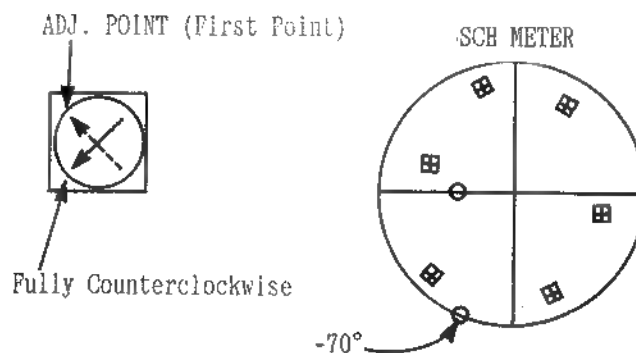
Step 2.

1. STD/NSTD SELECT : STD  
(on Set Up Menu & Front Sub Panel)
2. SCH METER : SCH Mode  
(TEK 1750)
3. Adjust the SCH Phase VR of AU-665 so that the SCH phase becomes  $-70^\circ$  at SCH Meter.
4. SCOPE : TP404
5. Confirm the DC voltage can be changed (H  $\longleftrightarrow$  L) by turning VR401.
6. VR401 : Fully Counterclockwise
7. Adjust VR401 so that the DC Level just becomes 1st Max. POINT at TP404.

Note:

There are 2 adjustment points. Adjust VR401 so that the DC Level comes up to the first high level point from full counterclockwise position.

8. Adjust VR401 so that the DC Level just becomes High level at TP404.



Step 3.

1. Adjust the SCH Phase VR of AU-665 so that the SCH phase becomes  $+70^\circ$  at SCH Meter.
2. VR402 : Fully Counterclockwise
3. Adjust VR402 so that the DC Level just becomes High Level at TP404.

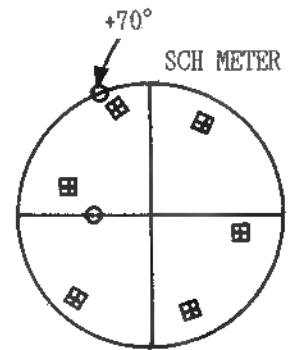
Note:

There are 2 adjustment points. Adjust VR402 so the DC Level comes up to the first high level point from full counterclockwise position.

ADJ. POINT (First Point)



Fully Counterclockwise



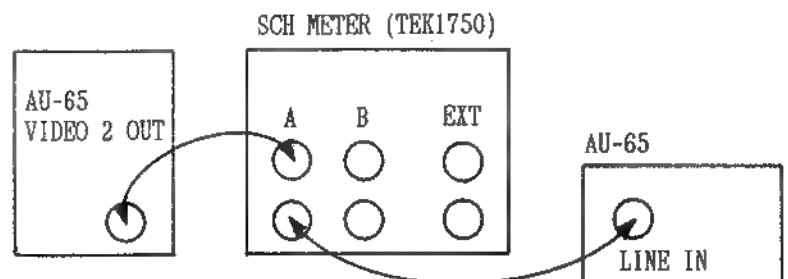
### 13-22-N(B) - SCH ADJUSTMENT (BY USING AU-65) (FOR AU-65 NTSC)

( W4 DEC & CTCM )

| TEST POINT                          | MODE           | TAPE USED | M.EQ.                     | INPUT SIGNAL                | ADJUSTMENT                     |
|-------------------------------------|----------------|-----------|---------------------------|-----------------------------|--------------------------------|
| IC402 (4)<br>IC403 (9)<br>IC404 (6) | E-E<br>(EJECT) | -----     | SCH METER<br>OSCILLOSCOPE | LINE IN<br>(SCH $0^\circ$ ) | VR401 (SCH -)<br>VR402 (SCH +) |

Step 1.

CONNECTION METHOD

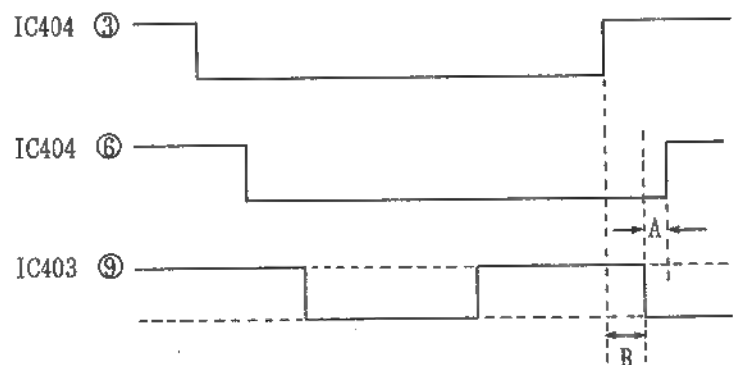


Step 2.

1. STD/NSTD SELECT : STD  
(on Set Up Menu & Front Sub Panel)
2. SCH METER  
(TEK 1750)
3. Adjust the SCH Phase VR of AU-65 so that the SCH phase becomes  $0^\circ$  at SCH Meter.
4. Connect the scope 9 pin of IC403, 3 pin and 6 pin of IC404.
5. Adjust VR401 and VR402 so that pulse timing is as shown in figure.

Note:

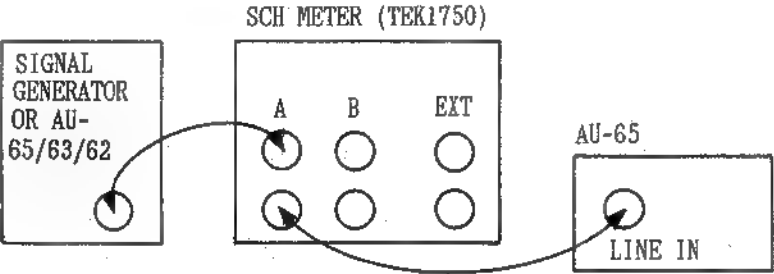
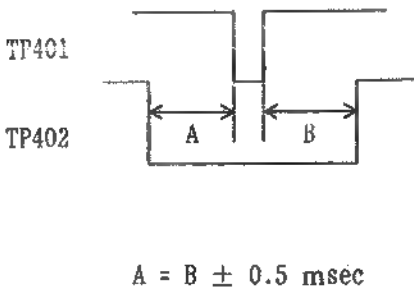
The pulse of 9 pin of IC403 is burst SC. Therefore pulse phase is inverted each field.



$A = 12 \pm 2 \text{ nsec.}$   
 $B = 24 \pm 2 \text{ nsec.}$   
 (Trigger IC403 - 9)

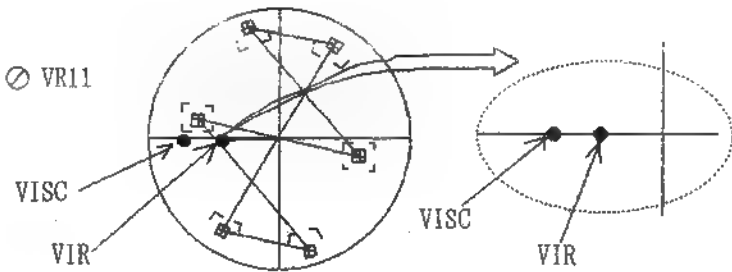
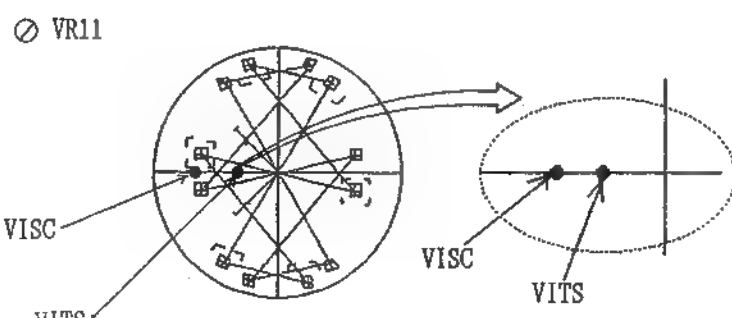
# 13-22-P. SCH ADJUSTMENT (FOR AU-65 PAL)

( W4 DEC & CTOM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                            | ADJUSTMENT     |
|--|----------------|-----------|--|---|----------------|
| TP401<br>TP402   | E-E<br>(EJECT) | -----     | SCH METER<br>(TEK 1751)<br><br>OSCILLOSCOPE  | LINE IN<br>COMPOSITE SIGNAL<br>(SCH 0°) | VR401 (SCH - ) |
| <p>Step 1.</p> <p>CONNECTION METHOD</p>  |                |           |    |   |                |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>STD/NSTD SELECT : STD<br/>(on Set Up Menu &amp; Front Sub Panel)</li> <li>SCH METER (METER 1751) : SCH Mode</li> <li>Adjust SIGNAL GEN or another MII VTR so that the SCH phase becomes <math>\pm 0^\circ</math>.</li> <li>Connect the oscilloscope to TP401 and TP402.</li> <li>Adjust VR401 so that the (A) equal (B) as shown in figure.</li> </ol> |                |           |  <p><math>A = B \pm 0.5 \text{ msec}</math></p> |   |                |

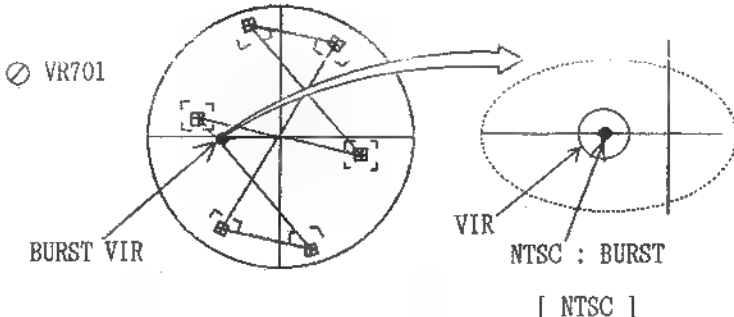
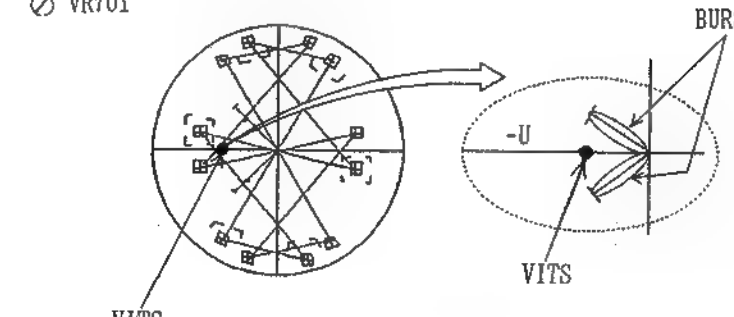
# 13-23. VISC PHASE ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W4 DEC & CTOM )

| TEST POINT   | MODE        | TAPE USED | M.EQ.   | INPUT SIGNAL  | ADJUSTMENT          |
|--|-------------|-----------|---|---|---------------------|
| VIDEO 2 OUT  | E-E (EJECT) | -----     | SCH METER (VECTOR Mode)   | LINE IN COLOR BAR (with VITS Signal that have Pb axis SC) | VR11 (VSC $\odot$ ) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>  |             |           | <p>1. TBC &amp; SYNC GEN (W1) Adjustment should be completed.</p> <p>2. ENCODER (W2) Adjustment should be completed.</p> <p>3. SW7 (on W1) : OFF</p> <p>4. STD/NSTD SELECT : STD<br/>(Set-up Menu No. 1011 <math>\rightarrow</math> 00 FRONT SWITCH)<br/>(Input Signal is standard from signal generator)</p> |   |                     |
| <p>Step 2. [ NTSC ]</p> <p>1. VECTOR SCOPE : VIDEO 2 OUT</p> <p>2. Confirm that the VISC signal phase is same as VIR signal phase as shown in figure. (<math>\pm 2^\circ</math>)</p> <p>3. If it is not, readjust VR11 so that the each phase becomes same phase.</p> <p>4. SW7 (on W1) : ON</p>                       |             |           | <p>VIDEO 2 OUT</p>  <p>VISC PHASE &amp; VIR PHASE should be the same</p>  |   |                     |
| <p>Step 2. [ PAL ]</p> <p>1. VECTOR SCOPE : VIDEO 2 OUT</p> <p>2. Confirm that the VISC signal phase is same as VITS (Pb axis Sub Carrier) signal phase as shown in figure. (<math>\pm 2^\circ</math>)</p> <p>3. If it is not, readjust VR11 so that the each phase becomes same phase.</p> <p>4. SW7 (on W1) : ON</p> |             |           |  <p>VISC PHASE &amp; VITS PHASE should be the same</p>  |   |                     |

13-24. 13.5 MHz PLL ADJUSTMENT (1)  
(FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL  | ADJUSTMENT           |
|--|----------------|-----------|---|---|----------------------|
| VIDEO 2<br>OUT   | E-E<br>(EJECT) | -----     | VECTOR SCOPE  | LINE IN<br>COLOR BAR<br>(with VITS Signal<br>that have Pb<br>axis SC) | VR701 (SYNC $\phi$ ) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>  |                |           | <ol style="list-style-type: none"> <li>1. TBC &amp; SYNC GEN (W1) Adjustment should be completed before this adjustment is done.</li> <li>2. ENCODER (W2) Adjustment should be completed before this adjustment is done.</li> <li>3. STD/NSTD SELECT : NSTD<br/>(Set-up Menu No. 1011 <math>\rightarrow</math> 01 NON-STD)</li> <li>4. SW7 (on W1) : OFF</li> </ol> |   |                      |
| <p>Step 2. [ NTSC ]</p> <ol style="list-style-type: none"> <li>1. VECTOR SCOPE : VIDEO 2 OUT</li> <li>2. Confirm that the VIR Phase is<br/>NTSC : VIR phase = phase</li> <li>3. If it is not, adjust VR701 so that the<br/>Burst Phase is the same as VIR Phase<br/>(Phase Difference = <math>0 \pm 2^\circ</math>).</li> <li>4. SW7 (on W1) : ON</li> </ol>   |                |           | <p>VIDEO 2 OUT</p> <p>⊙ VR701</p>  <p>[ NTSC ]</p>   |   |                      |
| <p>Step 2. [ PAL ]</p> <ol style="list-style-type: none"> <li>1. VECTOR SCOPE : VIDEO 2 OUT</li> <li>2. Set the vector scope burst, level 100% and burst phase on the burst line of the vector scope.</li> <li>3. Confirm that the VITS (Pb axis Sub Carrier) Phase is<br/>PAL : VITS Phase = U axis</li> <li>4. If it is not, adjust VR701 so that the VITS Phase is on U axis.<br/>(Phase Difference = <math>0 \pm 2^\circ</math>)</li> <li>5. SW7 (on W1) : ON</li> </ol> |                |           | <p>VIDEO 2 OUT</p> <p>⊙ VR701</p>  <p>[ PAL ]</p>   |   |                      |

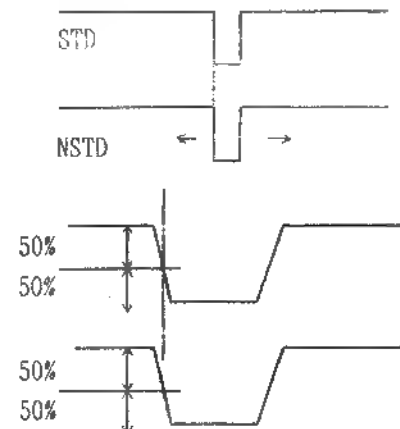
**13-25. 13.5 MHz PLL ADJUSTMENT (2)**  
(FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

| TEST POINT   | MODE        | TAPE USED | M.EQ.   | INPUT SIGNAL  | ADJUSTMENT        |
|--|-------------|-----------|---|---|-------------------|
| VIDEO 2 OUT  | E-E (EJECT) | -----     | VECTOR SCOPE  | LINE IN COLOR BAR (with VITS Signal that have Pb axis SC) | VR703 (PLL POS 2) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>  |             |           | <ol style="list-style-type: none"> <li>1. TBC &amp; SYNC GEN (W1) Adjustment should be completed before this adjustment is done.</li> <li>2. ENCODER (W2) Adjustment should be completed before this adjustment is done.</li> <li>3. STD/NSTD SELECT : STD<br/>(Set-up Menu No. 1101 → 00 FRONT SWITCH)<br/>(Input signal is standard from signal generator)</li> <li>4. SW7 (on W1) : OFF</li> </ol> |   |                   |
| <p>Step 2. [ NTSC ]</p> <ol style="list-style-type: none"> <li>1. VECTOR SCOPE : VIDEO 2 OUT</li> <li>2. Confirm that the VIR Phase is<br/>NTSC : VIR phase = Burst phase<br/>PAL : VIR phase = -U axis</li> <li>3. If it is not, adjust VR703 so that the Burst Phase is the same as VIR Phase (Phase Difference = <math>0 \pm 2^\circ</math>).</li> <li>4. SW7 (on W1) : ON</li> </ol>   |             |           | <p>VIDEO 2 OUT</p> <p>⊙ VR703</p>   |   |                   |
| <p>Step 2. [ PAL ]</p> <ol style="list-style-type: none"> <li>1. VECTOR SCOPE : VIDEO 2 OUT</li> <li>2. Set the vector scope, burst level 100% and burst phase on the burst line of the vector scope.</li> <li>3. Confirm that the VITS (Pb axis sub Carrier) Phase is<br/>PAL : VITS Phase = - U axis</li> <li>4. If it is not, adjust VR703 so that the VITS is on U axis. (Phase Difference = <math>0 \pm 2^\circ</math>)</li> <li>5. SW7 (on W1) : ON</li> </ol> |             |           | <p>VIDEO 2 OUT</p> <p>⊙ VR703</p>   |   |                   |

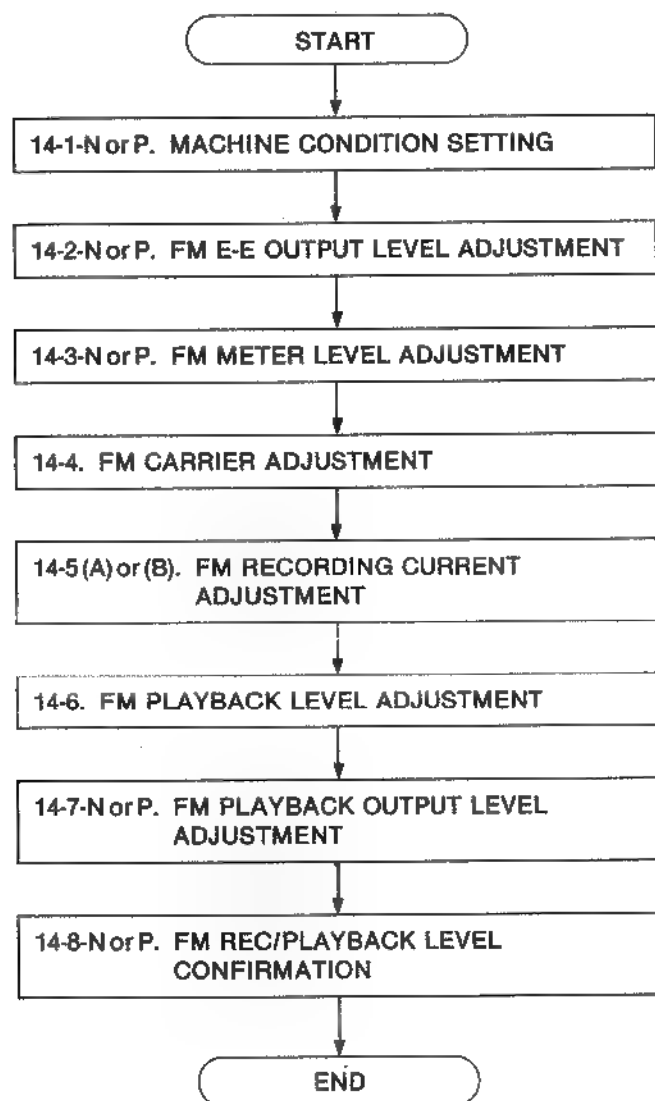
13-26. 13.5 MHz PLL ADJUSTMENT (3)  
(FOR AU-65 NTSC & PAL)

( W4 DEC & CTCM )

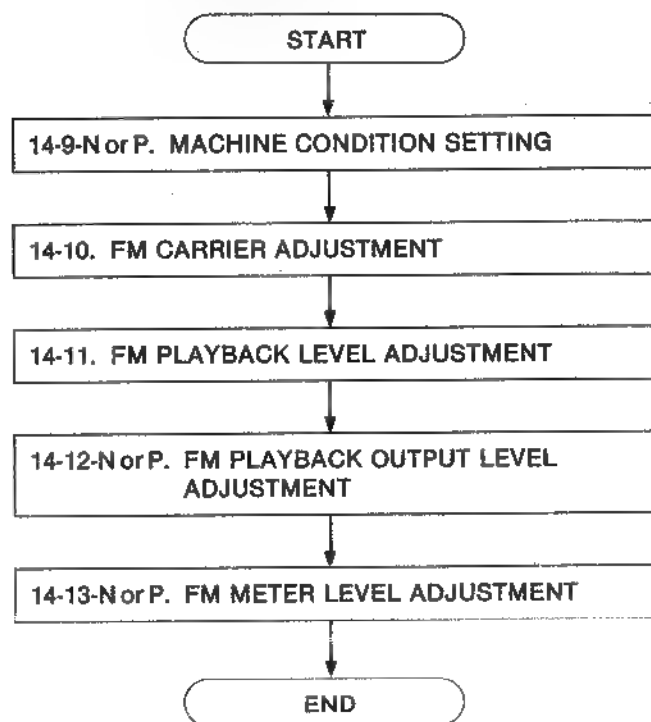
| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL         | ADJUSTMENT        |
|--|----------------|-----------|--|----------------------|-------------------|
| TP703  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | LINE IN<br>COLOR BAR | VR702 (PLL POS 1) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>  |                |           | <p>1. TBC &amp; SYNC GEN (W1) Adjustment should be completed before this adjustment is done.</p> <p>2. ENCODER (W2) Adjustment should be completed before this adjustment is done.</p> <p>3. STD/NSTD SELECT : STD<br/>(Set-up Menu No. 1011 → 00 FRONT SWITCH)<br/>(Input Signal is standard from Signal generator)</p> |                      |                   |
| <p>Step 2.</p> <p>1. SCOPE : TP703</p> <p>2. Trigger the scope with the composite sync out of the signal generator.</p> <p>3. Memorize the sync position in STD mode.</p> <p>4. STD/NSTD SELECT : NSTD<br/>(Set-up Menu No. 1011 → 01 NON-STD)</p> <p>5. Confirm that the sync position of NSTD mode is same as STD mode.</p> <p>6. If it is not, adjust VR702 so that the NSTD sync position is same as STD sync position.</p> <p>7. After adjustment SW800 (W2) set "ON" mode.</p> |                |           | <p>TP703</p> <p>⊙ VR702</p>   |                      |                   |

## 14. AUDIO (W6) BOARD (2/2)

### FM AUDIO SECTION (W6) FLOWCHART FOR AU-65



### FM AUDIO SECTION (W6) FLOWCHART FOR AU-63 AND AU-62





# 14. AUDIO (W6) BOARD (2/2) — FM AUDIO SECTION —

## 14-1-N. MACHINE CONDITION SETTING (FOR AU-65 NTSC FM AUDIO)

Set the switches on the Front Panel as shown except certain steps for NTSC VTR (See Machine Condition).

|  |       |             |
|--|-------|-------------|
| PB VR  | ----- | PRESET side |
| METER SELECT                                   | ----- | FM          |
| MODE   | ----- | E-E         |
| INPUT LEVEL SELECT ( on the Audio I/O Board )  | ----- | +4dBm       |
| OUTPUT LEVEL SELECT ( on the Audio I/O Board ) | ----- | +4dBm       |

## 14-1-P. MACHINE CONDITION SETTING (FOR AU-65 PAL FM AUDIO)

Set the switches on the Front Panel as shown except certain steps for PAL VTR (See Machine Condition).

|  |       |             |
|--|-------|-------------|
| PB VR  | ----- | PRESET side |
| METER SELECT                                   | ----- | FM          |
| MODE   | ----- | E-E         |
| INPUT LEVEL SELECT ( on the Audio I/O Board )  | ----- | +0dBu       |
| OUTPUT LEVEL SELECT ( on the Audio I/O Board ) | ----- | +0dBu       |

## 14-2-N. FM E-E OUTPUT LEVEL ADJUSTMENT (FOR AU-65 NTSC)

( W6 AUDIO )

| W6 AUDIO )   |       |           |   |                                  |                |
|--|-------|-----------|---|----------------------------------|----------------|
| TEST POINT   | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL                     | ADJUSTMENT     |
| CH3<br>LINE OUT                                    | EJECT | -----     | VTVM  | 1KHz Sinewave<br>Signal<br>+4dBm | VR701 (CH3 EE) |
| CH4<br>LINE OUT                                    |       |           |   |                                  | VR801 (CH4 EE) |
| Step 1.<br>MACHINE CONDITION                       |       |           | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1-N). |                                  |                |
| Step 2.<br><br>VTVM : CH3 LINE OUT<br>CH4 LINE OUT |       |           | SPECIFICATION : +4dBm ± 0.2dB   |                                  |                |

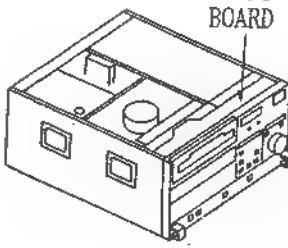
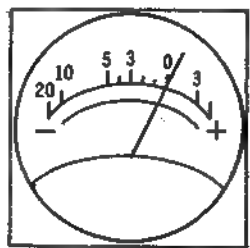
14-2-P. FM E-E OUTPUT LEVEL ADJUSTMENT  
(FOR AU-65 PAL)

( W6 AUDIO )

| TEST POINT   | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL                     | ADJUSTMENT                           |
|--|-------|-----------|---|----------------------------------|--------------------------------------|
| CH3<br>LINE OUT<br><br>CH4<br>LINE OUT             | EJECT | -----     | VTVM  | 1KHz Sinewave<br>Signal<br>+0dBu | VR701 (CH3 EE)<br><br>VR801 (CH4 EE) |
| Step 1.<br>MACHINE CONDITION                       |       |           | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1-P). |                                  |                                      |
| Step 2.<br><br>VTVM : CH3 LINE OUT<br>CH4 LINE OUT |       |           | SPECIFICATION : +0dBu $\pm$ 0.2dB   |                                  |                                      |

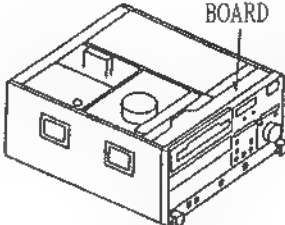
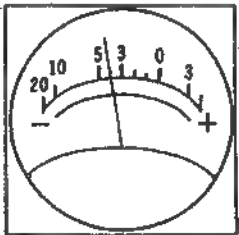
14-3-N. FM METER LEVEL ADJUSTMENT (FOR AU-65 NTSC)

( FRONT I/F BOARD )

| TEST POINT   | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL                     | ADJUSTMENT   |
|--|-------|-----------|---|----------------------------------|--|
| CH3<br>METER<br><br>CH4<br>METER   | EJECT | -----     | -----   | 1KHz Sinewave<br>Signal<br>+4dBm | VR103 (CH3 METER)<br>on Front Interface Board<br>VR104 (CH4 METER)<br>on Front Interface Board |
| Step 1.<br>MACHINE CONDITION   |       |           | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1-N).   |                                  |  |
| Step 2.<br><br>1. Adjust VR103 (CH1) and VR104 (CH3) on<br>the Front Interface Board so that the<br>meter indicates "0" VU as shown. |       |           | <div style="display: flex; align-items: center;"> <div style="text-align: center;">  <p>FRONT INTERFACE<br/>BOARD</p> </div> <div style="margin-left: 20px;"> <p>⊗ VR103</p> <p>⊗ VR104</p> </div> <div style="margin-left: 20px;">  </div> </div> |                                  |  |

### 14-3-P. FM METER LEVEL ADJUSTMENT (FOR AU-65 PAL)

( FRONT I/F BOARD )

| TEST POINT  | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                    | ADJUSTMENT   |
|---|-------|-----------|--|---------------------------------|--|
| CH3<br>METER<br><br>CH4<br>METER  | EJECT | -----     | -----  | 1KHz Sinewave<br>Signal<br>0dBu | VR103 (CH3 METER)<br>on Front Interface Board<br>VR104 (CH4 METER)<br>on Front Interface Board |
| Step 1.<br>MACHINE CONDITION  |       |           | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1-P).  |                                 |  |
| Step 2.<br><br>1. Adjust VR103 (CH1) and VR104 (CH3) on<br>the Front Interface Board so that the<br>meter indicates "-4" VU as shown. |       |           | <div style="display: flex; align-items: center;"> <div style="text-align: center;">  <p>FRONT INTERFACE<br/>BOARD</p> </div> <div style="margin-left: 20px;"> <p>⊗ VR103</p> <p>⊗ VR104</p> </div> <div style="margin-left: 20px;">  </div> </div> |                                 |  |

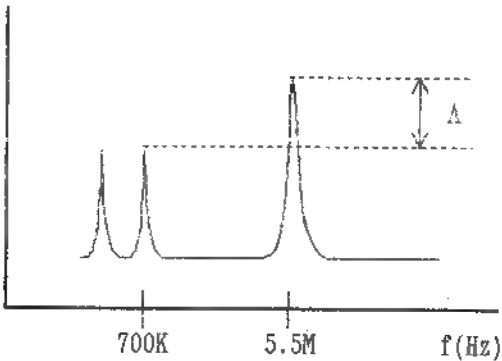
### 14-4. FM CARRIER ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W6 AUDIO )

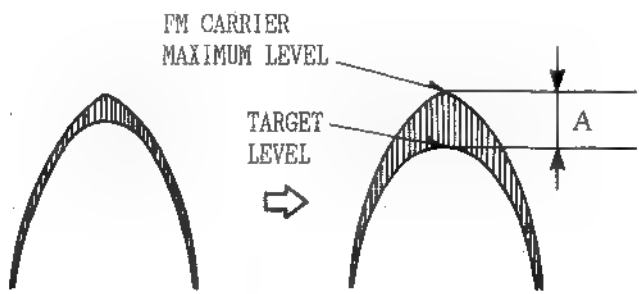
| TEST POINT  | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                             |
|---|-------|-----------|--|--------------|--|
| TP704<br>(CH3)<br><br>TP804<br>(CH4)                          | EJECT | -----     | FREQUENCY<br>COUNTER   | -----        | VR704<br>(CH3 FO)<br>VR804<br>(CH4 FO) |
| Step 1.<br>MACHINE CONDITION                                  |       |           | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition<br>14-1-N or 14-1-P). |              |  |
| Step 2.<br><br>Frequency Counter : TP704 (CH3)<br>TP804 (CH4) |       |           | SPECIFICATION : TP704 = 400KHz $\pm$ 1KHz<br>TP804 = 700KHz $\pm$ 1KHz   |              |  |

**14-5(A) . FM RECORDING CURRENT ADJUSTMENT  
(BY USING SPECTRUM ANALYZER)  
(FOR AU-65 NTSC & PAL)**

( W6 AUDIO )

| TEST POINT  | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                                 | ADJUSTMENT       |
|---|-------|-----------|--|--|------------------|
| TP2<br>on RA & HA<br>P. C. Board  | EJECT | -----     | SPECTRUM<br>ANALYZER   | COMPOSITE<br>50% FLAT FIELD<br>TO LINE INPUT | VR901 (FM CURR.) |
| <p>Step 1.</p> <p>MACHINE CONDITION</p>   |       |           | <ol style="list-style-type: none"> <li>1. Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 14-1-N or 14-1-P).</li> <li>2. The Video Head must be degaussed with a magnetic eraser.</li> <li>3. The C REC CURRENT ADJ. (12-13-N or 12-13-P and 12-14-N or 12-14-P) should be completed.</li> </ol> |  |                  |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. ANALYZER : TP2 (on RA &amp; HA P.C.B.)</li> <li>2. Adjust VR901 so that the FM Carrier Level is <math>-27\text{dB} \pm 0.5\text{dB}</math> against the chroma carrier level as shown.</li> </ol> |       |           |  <p style="text-align: center;"><math>A = -27\text{dB} \pm 0.5\text{dB}</math></p>  |  |                  |

**14-5(B) . FM RECORDING CURRENT ADJUSTMENT  
(BY USING OSCILLOSCOPE)  
(FOR AU-65 NTSC & PAL)**

| TEST POINT   | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                                 | ADJUSTMENT       |
|--|-------|-----------|--|--|------------------|
| TP2<br>on RA & HA<br>P. C. Board   | EJECT | -----     | OSCILLOSCOPE   | COMPOSITE<br>50% FLAT FIELD<br>TO LINE INPUT | VR901 (FM CURR.) |
| Step 1.<br><br>MACHINE CONDITION   |       |           | 1. Refer to Set Up Conditions at the beginning of this SECTION (AUDIO - W6 Machine Condition 14-1-N or 14-1-P).<br>2. The Video Head must be degaussed with a magnetic eraser.<br>3. The C REC CURRENT ADJ. (12-13-N or 12-13-P and 12-14-N or 12-14-P) should be completed. |  |                  |
| Step 2.<br><br>SCOPE CONDITION   |       |           | VOLTS/DIV. = 50mV or 20mV<br>TIME /DIV. = 20nsec<br>BAND FILTER = OFF  |  |                  |
| Step 3.<br><br>SCOPE : TP2 (on RA & HA P.C.B.)<br><br>1. VR901 : Fully Clockwise<br><br>2. Adjust VR901 so that the FM Carrier (A) level becomes $35\text{mV} \pm 5\text{mVp-p}$ as shown. |       |           |  <p style="text-align: center;">A = <math>35 \pm 5\text{mVp-p}</math></p>  |  |                  |

# 14-6. FM PLAYBACK LEVEL ADJUSTMENT (FOR AU-65 NTSC & PAL)

( W6 AUDIO )

| TEST POINT   | MODE | TAPE USED                                | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                       |
|--|------|--|---|--------------|----------------------------------|
| TP702<br>TP802   | PLAY | ALIGNMENT<br>TAPE<br>1KHz OVU<br>PORTION | VTVM  | -----        | VR703 (CH3 PB)<br>VR803 (CH4 PB) |
| Step 1.<br>MACHINE CONDITION<br><br>VTVM CONDITION   |      |  | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition<br>14-1-N or 14-1-P).<br>FILTER : 20KHz L.P.F. (DIN AUDIO) |              |                                  |
| Step 2.<br><br>1. Play back the 1KHz OVU portion of the<br>Alignment Tape.<br><br>2. Adjust VR703 and VR803 so that the<br>TP702 and TP802 becomes -16dB $\pm$<br>0.2dB. |      |  | ⊙ VR703<br>VR803<br><br>SPECIFICATION : -16dB $\pm$ 0.2dB   |              |                                  |

# 14-7-N. FM PLAYBACK OUTPUT LEVEL ADJUSTMENT (FOR AU-65 NTSC)

( FRONT I/F BOARD )

| TEST POINT  | MODE | TAPE USED         | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|---|------|-------------------|--|--------------|--|
| CH3<br>LINE OUT<br><br>CH4<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE | VTVM   | -----        | VR12 (CH3 PB LEVEL)<br>(on Front I/F Board)<br>VR13 (CH4 PB LEVEL)<br>(on Front I/F Board) |
| Step 1.<br>MACHINE CONDITION  |      |                   | 1. Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1-N).<br>2. FM AUDIO PB LEVEL SW (CH3 ■ CH4) : PRESET<br>(on Front Interface Board) |              |  |
| Step 2.<br><br>1. Play back the 1KHz OVU portion of the<br>Alignment Tape.<br><br>2. Adjust VR12 and VR13 so that the CH3<br>and CH4 PB LEVEL is +4dBm $\pm$ 0.2dB. |      |                   | ⊙ VR 12/13 (on Front I/F Board)<br><br>SPECIFICATION : +4dBm $\pm$ 0.2dB   |              |  |

**14-7-P. FM PLAYBACK OUTPUT LEVEL ADJUSTMENT  
(FOR AU-65 PAL)**

( FRONT I/F BOARD )

| TEST POINT   | MODE | TAPE USED         | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|--|------|-------------------|--|--------------|--|
| CH3<br>LINE OUT<br><br>CH4<br>LINE OUT   | PLAY | ALIGNMENT<br>TAPE | VTVM   | -----        | VR12 (CH3 PB LEVEL)<br>(on Front I/F Board)<br>VR13 (CH4 PB LEVEL)<br>(on Front I/F Board) |
| Step 1.<br>MACHINE CONDITION   |      |                   | 1. Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1-P).<br>2. FM AUDIO PB LEVEL SW (CH3 & CH4) : PRESET<br>(on Front Interface Board) |              |  |
| Step 2.<br><br>1. Play back the 1KHz OVU portion of the<br>Alignment Tape.<br><br>2. Adjust VR12 and VR13 so that the CH3<br>and CH4 PB LEVEL is $+0\text{dBu} \pm 0.2\text{dB}$ . |      |                   | ⊙ VR 12/13 (on Front I/F Board)<br><br>SPECIFICATION : $+0\text{dBu} \pm 0.2\text{dB}$   |              |  |

**14-8-N. FM REC/PLAYBACK LEVEL CONFIRMATION  
(FOR AU-65 NTSC)**

( W6 AUDIO )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL                     | ADJUSTMENT                           |
|--|------------------|------------|---|----------------------------------|--------------------------------------|
| CH3<br>LINE OUT<br><br>CH4<br>LINE OUT   | SELF<br>REC/PLAY | BLANK TAPE | VTVM  | 1KHz Sinewave<br>Signal<br>+4dBm | VR705 (CH3 DEV.)<br>VR805 (CH4 DEV.) |
| Step 1.<br>MACHINE CONDITION   |                  |            | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1-N). |                                  |                                      |
| Step 2.<br><br>1. Make a recording for a few minutes.<br><br>2. Play back the just recorded portion.<br><br>3. Confirm that the Line Output Level is<br>$+4\text{dBm} \pm 0.2\text{dB}$ .<br><br>4. If it is not, adjust VR705 and VR805 and<br>repeat from Item 1 to Item 3 until the<br>output level becomes $+4\text{dBm} \pm 0.2\text{dB}$ . |                  |            | SPECIFICATION : $+4\text{dBm} \pm 0.2\text{dB}$   |                                  |                                      |

14-8-P. FM REC/PLAYBACK LEVEL CONFIRMATION  
(FOR AU-65 PAL)

( W6 AUDIO )

| TEST POINT   | MODE             | TAPE USED  | M.EQ.   | INPUT SIGNAL                     | ADJUSTMENT                               |
|--|------------------|------------|---|----------------------------------|--|
| CH3<br>LINE OUT<br><br>CH4<br>LINE OUT   | SELF<br>REC/PLAY | BLANK TAPE | VTVM  | 1KHz Sinewave<br>Signal<br>+0dBu | VR705 (CH3 DEV.)<br><br>VR805 (CH4 DEV.) |
| Step 1.<br>MACHINE CONDITION   |                  |            | Refer to Set Up Conditions at the beginning<br>of this SECTION (AUDIO - W6 Machine Condition 14-1-P). |                                  |  |
| Step 2.<br><br>1. Make a recording for a few minutes.<br><br>2. Play back the just recorded portion.<br><br>3. Confirm that the Line Output Level is<br>+0dBu $\pm$ 0.2dB.<br><br>4. If it is not, adjust VR705 and VR805 and<br>repeat from Item 1 to Item 3 until the<br>output level becomes +0dBu $\pm$ 0.2dB. |                  |            | SPECIFICATION : +0dBu $\pm$ 0.2dB   |                                  |  |



**14-9-N. MACHINE CONDITION SETTING  
(FOR AU-63/62 NTSC FM AUDIO)**

Set the switches on the Front Panel as follows except special condition for NTSC VTR.

PB VR ----- PRESET side  
METER SELECT ----- FM  
OUTPUT LEVEL SELECT ( on the Audio I/O Board ) ----- +4dBu

**14-9-P. MACHINE CONDITION SETTING  
(FOR AU-63/62 PAL FM AUDIO)**

Set the switches on the Front Panel as follows except special condition for PAL VTR.

PB VR ----- PRESET side  
METER SELECT ----- FM  
OUTPUT LEVEL SELECT ( on the Audio I/O Board ) ----- +0dBu

**14-10. FM CARRIER ADJUSTMENT (FOR AU-62/63)  
(FOR AU-62/63 PAL & NTSC) ( W6 AUDIO )**

| TEST POINT  | MODE  | TAPE USED | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                             |
|---|-------|-----------|---|--------------|--|
| TP704<br>(CH3)<br><br>TP804<br>(CH4)                          | EJECT | -----     | FREQUENCY<br>COUNTER  | -----        | VR704<br>(CH3 FO)<br>VR804<br>(CH4 FO) |
| Step 1.<br>MACHINE CONDITION                                  |       |           | 1. Refer to Set Up Conditions at 14-9-N or 14-9-P<br>Machine Condition Setting (for AU-62/63).<br>2. Short a jumper wire between TP902 and TP903. |              |  |
| Step 2.<br><br>Frequency Counter : TP704 (CH3)<br>TP804 (CH4) |       |           | SPECIFICATION : TP704 = 400KHz $\pm$ 1KHz<br>TP804 = 700KHz $\pm$ 1KHz  |              |  |

**14-11. FM PLAYBACK LEVEL ADJUSTMENT**  
(FOR AU-62/63 NTSC & PAL)

( W6 AUDIO )

| TEST POINT   | MODE | TAPE USED                     | M.EQ.   | INPUT SIGNAL | ADJUSTMENT                           |
|--|------|-------------------------------|---|--------------|--------------------------------------|
| CH3<br>TP702<br><br>CH4<br>TP802   | PLAY | ALIGNMENT<br>TAPE<br>1KHz OVU | VTVM  | -----        | VR703 (CH3 PB)<br><br>VR803 (CH4 PB) |
| Step 1.<br>MACHINE CONDITION   |      |                               | Refer to Set Up Conditions at 14-9-N or 14-9-P<br>Machine Condition Setting (for Au-62/63). |              |                                      |
| Step 2.<br><br>1. Play back the 1KHz OVU portion of the<br>Alignment Tape.<br><br>2. Adjust VR703 and VR803 so that the Line<br>output level becomes $-16\text{dB} \pm 0.2\text{dB}$ . |      |                               | Ⓞ VR703<br>VR803<br><br>SPECIFICATION : $-16\text{dB} \pm 0.2\text{dB}$                     |              |                                      |

**14-12-N. FM PLAYBACK OUTPUT LEVEL ADJUSTMENT**  
(FOR AU-62/63 NTSC)

( W6 AUDIO )

| TEST POINT   | MODE | TAPE USED                        | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|--|------|----------------------------------|--|--------------|--|
| CH3<br>LINE OUT<br><br>CH4<br>LINE OUT   | PLAY | ALIGNMENT<br>TAPE<br>1KHz<br>OVU | VTVM   | -----        | VR12 (CH3 PB LEVEL)<br>(on Front I/F Board)<br>VR13 (CH4 PB LEVEL)<br>(on Front I/F Board) |
| Step 1.<br>MACHINE CONDITION   |      |                                  | 1. Refer to Set Up Conditions at 14-9-N Machine<br>Condition Setting (for AU-62/63).<br>2. FM AUDIO PB LEVEL SW (CH3 & CH4) : PRESET<br>(on Front Interface Board) |              |  |
| Step 2.<br><br>2. Play back the 1KHz OVU portion of the<br>Alignment Tape.<br><br>3. Adjust VR12 and VR13 so that the CH3<br>and CH4 PB LEVEL is $+4\text{dBm} \pm 0.2\text{dB}$ . |      |                                  | Ⓞ VR 12 (on Front I/F Board)<br>Ⓞ VR 13<br><br>SPECIFICATION : $+4\text{dBm} \pm 0.2\text{dB}$   |              |  |

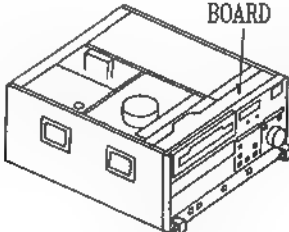
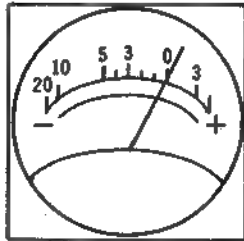
# 14-12-P. FM PLAYBACK OUTPUT LEVEL ADJUSTMENT (FOR AU-62/63 PAL)

( W6 AUDIO )

| TEST POINT  | MODE | TAPE USED                        | M.EQ.  | INPUT SIGNAL | ADJUSTMENT   |
|---|------|----------------------------------|--|--------------|--|
| CH3<br>LINE OUT<br><br>CH4<br>LINE OUT  | PLAY | ALIGNMENT<br>TAPE<br>1KHz<br>OVU | VTVM   | -----        | VR12 (CH3 PB LEVEL)<br>(on Front I/F Board)<br>VR13 (CH4 PB LEVEL)<br>(on Front I/F Board) |
| Step 1.<br>MACHINE CONDITION  |      |                                  | 1. Refer to Set Up Conditions at 14-9-P Machine<br>Condition Setting (for AU-62/63).<br>2. FM AUDIO PB LEVEL SW (CH3 & CH4) : PRESET<br>(on Front Interface Board) |              |  |
| Step 2.<br><br>2. Play back the 1KHz OVU portion of the<br>Alignment Tape.<br><br>3. Adjust VR12 and VR13 so that the CH3<br>and CH4 PB LEVEL is +0dBu $\pm$ 0.2dB. |      |                                  | <div> <div> <div>⊗ VR 12 (on Front I/F Board)</div> <div>⊗ VR 13</div> </div> <div>SPECIFICATION : +0dBu <math>\pm</math> 0.2dB</div> </div>                       |              |  |

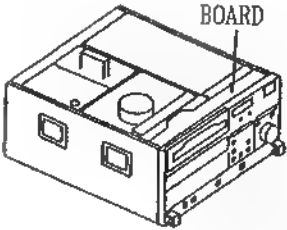
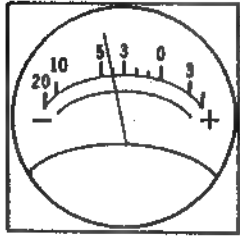
# 14-13-N. FM METER LEVEL ADJUSTMENT (FOR AU-62/63 NTSC)

( W6 AUDIO )

| TEST POINT  | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                     | ADJUSTMENT   |
|---|-------|-----------|--|----------------------------------|--|
| CH3<br>METER<br><br>CH4<br>METER  | EJECT | -----     | -----  | 1KHz Sinewave<br>Signal<br>+4dBm | VR103 (CH3 METER)<br>on Front Interface Board<br>VR104 (CH4 METER)<br>on Front Interface Board |
| Step 1.<br>MACHINE CONDITION  |       |           | Refer to Set Up Conditions at 14-9-N Machine<br>Condition Setting (for AU-62/63).  |                                  |  |
| Step 2.<br><br>1. Adjust VR103 (CH1) and VR104 (CH3) on<br>the Front Interface Board so that the<br>meter indicates "0" VU as shown in<br>figure. |       |           | <div> <div>FRONT INTERFACE<br/>BOARD</div> <div>  <div> <div>⊗ VR103</div> <div>⊗ VR104</div> </div> </div> </div> <div>  </div> |                                  |  |

14-13-P. FM METER LEVEL ADJUSTMENT  
(FOR AU-62/63 PAL)

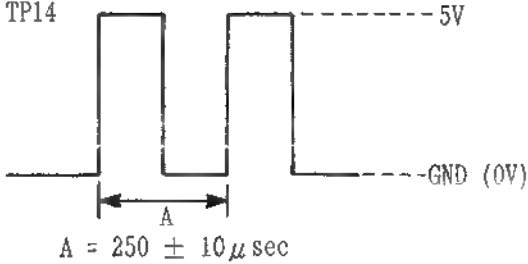
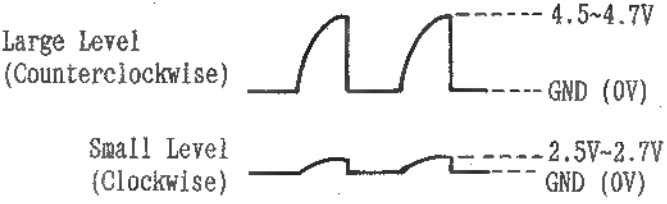
( W6 AUDIO )

| TEST POINT   | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL                     | ADJUSTMENT   |
|--|-------|-----------|--|----------------------------------|--|
| CH3<br>METER<br><br>CH4<br>METER   | EJECT | -----     | -----  | 1KHz Sinewave<br>Signal<br>+0dBu | VR103 (CH3 METER)<br>on Front Interface Board<br>VR104 (CH4 METER)<br>on Front Interface Board |
| Step 1.<br>MACHINE CONDITION   |       |           | Refer to Set up Conditions at 14-9-P Machine<br>Condition Setting (for AU-62/63).  |                                  |  |
| Step 2.<br><br>1. Adjust VR103 (CH1) and VR104 (CH3) on<br>the Front Interface Board so that the<br>meter indicates "-4" VU as shown in<br>figure. |       |           | <p>FRONT INTERFACE<br/>BOARD</p>  <p>⊗ VR103<br/>⊗ VR104</p>  |                                  |  |

## 15. FRONT PANEL

### 15-1. ALARM OSC & LEVEL ADJUSTMENT (NTSC & PAL)

( FRONT PANEL C )

| TEST POINT   | MODE  | TAPE USED | M.EQ.  | INPUT SIGNAL | ADJUSTMENT                             |
|--|-------|-----------|--|--------------|--|
| TP14<br>TP15   | EJECT |           | OSCILLOSCOPE   | -----        | VR 1 (ALARM OSC)<br>VR 2 (ALARM LEVEL) |
| Step 1.<br>MACHINE CONDITION   |       |           | SW4 - 8 : ON<br>VR2 : Fully CCW  |              |  |
| Step 2.<br><br>Adjust VR1 so that the period A is $250\mu\text{sec.}$ ( $\pm 10\mu\text{sec.}$ ) as shown in figure. |       |           | <p>⊙ VR1 TP14</p>  <p><math>A = 250 \pm 10\mu\text{sec}</math></p>  |              |  |
| Step 3.<br><br>Confirm that the voltage level is from 4.5V to 4.7V as shown in figure.                               |       |           | <p>⊙ VR2 TP15</p>  <p>Large Level (Counterclockwise) 4.5~4.7V<br/>GND (0V)</p> <p>Small Level (Clockwise) 2.5V~2.7V<br/>GND (0V)</p> |              |  |
| Step 4.<br><br>Set VR2 fully CW and confirm that the voltage level is from 2.5V to 2.7V as shown in figure.          |       |           |  |              |  |
| Step 5.<br><br>Reset SW4-8 to OFF and reset VR2 fully CCW to set the maximum audio level.                            |       |           |  |              |  |

## 16. AU-F65 (OPTION TCG/TCR)

### 16-1. TRIMMER ADJUSTMENT (NTSC & PAL)

( AU-F65 TCG/TCR )

| TEST POINT  | MODE  | TAPE USED | M.EQ.                              | INPUT SIGNAL | ADJUSTMENT |
|---|-------|-----------|------------------------------------|--------------|------------|
| TP 6  | EJECT | -----     | FREQUENCY<br>COUNTER               | -----        | C19        |
| 1. Confirm that the frequency at TP6 is<br>$512.000 \pm 0.002\text{Hz}$ .<br><br>2. If it is not specification, adjust C19<br>as mentioned above. |       |           | TP6 : $512.000 \pm 0.002\text{Hz}$ |              |            |

## **PARTS LIST**

- **Electrical Parts List**
- **Exploded View**
- **Mechanical Parts List**

This section provides the exploded views, mechanical parts lists and electrical parts lists.

**Note :**

1. Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K = 1,000 OHMS, all capacitors are in MICROFARADS (uF), P = uuF.
3. The P.C.Board units marked with "■" show below the main assembled parts.
4. The parts marked with E on the exploded view show the electric parts.
5. **IMPORTANT SAFETY NOTICE**  
Components identified with the mark (!) have the special characteristics for safety. When replacing any of these components, use only the same type.

**<< Abbreviations for parts >>**

| <b>&lt; NAME &gt;</b> | <b>&lt; DESCRIPTIONS &gt;</b>           |
|-----------------------|---|
| C.CAPACITOR           | : CERAMIC CAPACITOR                     |
| C.CAPACITOR CH        | : CERAMIC CHIP CAPACITOR                |
| E.CAPACITOR           | : ELECTROLYTIC CAPACITOR                |
| G.CAPACITOR           | : GLASS CAPACITOR                       |
| M.CAPACITOR           | : MICA CAPACITOR                        |
| P.CAPACITOR           | : PLASTIC FILM CAPACITOR                |
| S.CAPACITOR           | : SEMI-CONDUCTOR CAPACITOR              |
| T.CAPACITOR           | : TANTALUM CAPACITOR                    |
| TRIMMER               | : TRIMMER                               |
| C.RESISTOR            | : CARBON RESISTOR                       |
| F.RESISTOR            | : FUSE RESISTOR                         |
| M.RESISTOR            | : METAL OXIDE RESISTOR                  |
| M.RESISTOR CH         | : METAL OXIDE CHIP RESISTOR             |
| S.RESISTOR            | : SOLID RESISTOR                        |
| V.RESISTOR            | : VARIABLE RESISTOR                     |
| W.RESISTOR            | : WIRE WOUND RESISTOR                   |
| COMBI.TR-R            | : TRANSISTOR-RESISTOR COMBINATION PARTS |
| COMBI.R-R             | : RESISTOR-RESISTOR COMBINATION PARTS   |
| COMBI.C-R             | : CAPACITOR-RESISTOR COMBINATION PARTS  |
| COMBI.C-R-R           | : CAPACITOR-RESISTOR-COIL COMBINATION P |
| P.C.BOARD             | : PRINTED CIRCUIT BOARD                 |
| W/COMPONENT           | : WITH COMPONENT                        |



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## P.C.BOARDS LIST (TREE STYLE)

| P.C. BOARD NAME                  | VEP NUMBER<br>(AU-65 NTSC) | VEP NUMBER<br>(AU-63 NTSC) | VEP NUMBER<br>(AU-62 NTSC) |
|----------------------------------|----------------------------|----------------------------|----------------------------|
| 1. W0 MOTHER 1                   | VEP80548A                  | VEP80548D                  | VEP80548C                  |
| 2. W1 TBC & SYNCGEN              | VEP88062A                  | VEP88062A                  | VEP88062A                  |
| 3. W2 ENCODER                    | VEP88063A                  | VEP88063A                  | VEP88063A                  |
| 4. W3 MOD & DEMOD                | VEP83098A                  | VEP83098D                  | VEP83098C                  |
| 5. W4 DEC & CTCM                 | VEP83099A                  | -----                      | -----                      |
| 6. W5 SERVO                      | VEP82061A                  | VEP82061D                  | VEP82061C                  |
| 7. W6 AUDIO                      | VEP84095A                  | VEP84095C                  | VEP84095C                  |
| 8. W6S TC TRAP SUB               | └ VEP80635A                | -----                      | -----                      |
| 9. B0 MOTHER 2                   | VEP80549A                  | VEP80549B                  | VEP80549A                  |
| 10. B1 SYSTEM CONTROL            | VEP86088A                  | VEP86088D                  | VEP86088C                  |
| 11. AT POWER                     | -----                      | VEP82062A                  | -----                      |
| 12. AUDIO IN/OUT                 | VEP84094A                  | VEP84094C                  | VEP84094C                  |
| 13. AUDIO IN/OUT SUB             | └ VEP80573A                | └ VEP80573A                | └ VEP80573A                |
| 14. AUDIO VR                     | VEP84101A                  | VEP84101C                  | VEP84101B                  |
| 15. AUTO OFF LED                 | VEP00E08C                  | VEP00E08C                  | VEP00E08C                  |
| 16. CASSETTE CARRIAGE LAMP       | VEP00E72A                  | VEP00E72A                  | VEP00E72A                  |
| 17. CASSETTE DETECT              | VEP00E30A                  | VEP00E30A                  | VEP00E30A                  |
| 18. EJECT INTERFACE              | VEP80422B                  | VEP80422B                  | VEP80422B                  |
| 19. EJECT SW                     | VEP80232A                  | VEP80232A                  | VEP80232A                  |
| 20. FRONT INTERFACE              | VEP80553A                  | VEP80553C                  | VEP80553B                  |
| 21. FRONT LOADING                | VEP80440A                  | VEP80440A                  | VEP80440A                  |
| 22. FRONT MODE SELECT<br>CIRCUIT | VEP80559A                  | VEP80559D                  | VEP80559C                  |
| 23. FRONT PANEL A                | VEP86050C                  | VEP86086A                  | VEP86086A                  |
| 24. FRONT PANEL B                | VEP66022A                  | VEP86076C                  | VEP86076C                  |

| P.C. BOARD NAME             | VEP NUMBER<br>(AU-65 NTSC) | VEP NUMBER<br>(AU-63 NTSC) | VEP NUMBER<br>(AU-62 NTSC) |
|-----------------------------|----------------------------|----------------------------|----------------------------|
| 25. FRONT PANEL C           | VEP86048F                  | -----                      | -----                      |
| 26. FRONT SW VR             | VEP80552A                  | VEP80552A                  | VEP80552A                  |
| 27. HEADPHONE VR            | VEP80108A                  | VEP80108A                  | VEP80108A                  |
| 28. LOADING PHOTO           | VEP00E04B                  | VEP00E04B                  | VEP00E04B                  |
| 29. MECHA INTERFACE CIRCUIT | VEP80550A                  | VEP80550A                  | VEP80550A                  |
| 30. METER LAMP              | VEP80333B                  | VEP80333B                  | VEP80333B                  |
| 31. POWER FILTER            | VEP81042A                  | VEP81042A                  | VEP81042A                  |
| 32. POWER SUPPLY UNIT       | VYK3004                    | VYK3004                    | VYK3004                    |
| 33. RA & HA                 | VEP85015A                  | VEP85015C                  | VEP85015B                  |
| 34. TR SENSOR (1)           | VEP00E27C                  | VEP00E27C                  | VEP00E27C                  |
| 35. TR SENSOR (2)           | VEP00E28C                  | VEP00E28C                  | VEP00E28C                  |
| 36. UNLOADING PHOTO         | VEP00E25C                  | VEP00E25C                  | VEP00E25C                  |
| 37. VIDEO IN/OUT            | VEP83097A                  | VEP83097B                  | VEP83097B                  |
| 38. YC IN/OUT               | VEP80574A                  | VEP80574A                  | VEP80574A                  |
| 39. 9P REMOTE               | VEP80551A                  | VEP80551A                  | VEP80551A                  |

## P.C.BOARDS LIST (TREE STYLE)

| P.C.BOARD NAME                   | VEP NUMBER<br>(AU-65 PAL) | VEP NUMBER<br>(AU-63 PAL) | VEP NUMBER<br>(AU-62 PAL) |
|----------------------------------|---------------------------|---------------------------|---------------------------|
| 1. WO MOTHER 1                   | VEP80548A                 | VEP80548D                 | VEP80548C                 |
| 2. W1 TBC & SYNC GEN             | VEP88062C                 | VEP88062C                 | VEP88062C                 |
| 3. W2 ENCODER                    | VEP88063C                 | VEP88063C                 | VEP88063C                 |
| 4. W2S SC SUB                    | VEP80632A                 | VEP80632A                 | VEP80632A                 |
| 5. W3 MOD & DEMOD                | VEP83098E                 | VEP83098F                 | VEP83098G                 |
| 6. W3 SUB                        | VEP80667A                 | -----                     | -----                     |
| 7. W4 DEC & CTCM                 | VEP83099B                 | -----                     | -----                     |
| 8. W5 SERVO                      | VEP82061E                 | VEP82061F                 | VEP82061E                 |
| 9. W6 AUDIO                      | VEP84095D                 | VEP84095E                 | VEP84095E                 |
| 10. W6S TC TRAP SUB              | VEP80635A                 | -----                     | -----                     |
| 11. B0 MOTHER 2                  | VEP80549A                 | VEP80549B                 | VEP80549A                 |
| 12. B1 SYSTEM CONTROL            | VEP86088E                 | VEP86088F                 | VEP86088M                 |
| 13. AT POWER                     | -----                     | VEP82062A                 | -----                     |
| 14. AUDIO IN/OUT                 | VEP84094A                 | VEP84094C                 | VEP84094C                 |
| 15. AUDIO IN/OUT SUB             | VEP80573A                 | VEP80573A                 | VEP80573A                 |
| 16. AUDIO VR                     | VEP84101A                 | VEP84101C                 | VEP84101B                 |
| 17. AUTO OFF LED                 | VEP00E08C                 | VEP00E08C                 | VEP00E08C                 |
| 18. CASSETTE CARRIAGE LAMP       | VEP00E72A                 | VEP00E72A                 | VEP00E72A                 |
| 19. CASSETTE DETECT              | VEP00E30A                 | VEP00E30A                 | VEP00E30A                 |
| 20. EJECT INTERFACE              | VEP80422B                 | VEP80422B                 | VEP80422B                 |
| 21. EJECT SW                     | VEP80232A                 | VEP80232A                 | VEP80232A                 |
| 22. FRONT INTERFACE              | VEP80631A                 | VEP80631B                 | VEP80631C                 |
| 23. FRONT LOADING                | VEP80440A                 | VEP80440A                 | VEP80440A                 |
| 24. FRONT MODE SELECT<br>CIRCUIT | VEP80559A                 | VEP80559D                 | VEP80559C                 |

| P.C. BOARD NAME             | VEP NUMBER<br>(AU-65 PAL) | VEP NUMBER<br>(AU-63 PAL) | VEP NUMBER<br>(AU-62 PAL) |
|-----------------------------|---------------------------|---------------------------|---------------------------|
| 25. FRONT PANEL A           | VEP86050D                 | VEP86086A                 | VEP86086A                 |
| 26. FRONT PANEL B           | VEP86022A                 | VEP86076D                 | VEP86076D                 |
| 27. FRONT PANEL C           | VEP86048G                 | -----                     | -----                     |
| 28. FRONT SW VR             | VEP80552A                 | VEP80552A                 | VEP80552A                 |
| 29. HEADPHONE VR            | VEP80616A                 | VEP80616A                 | VEP80616A                 |
| 30. LOADING PHOTO           | VEP00E04B                 | VEP00E04B                 | VEP00E04B                 |
| 31. MECHA INTERFACE CIRCUIT | VEP80550A                 | VEP80550A                 | VEP80550A                 |
| 32. METER LAMP              | VEP80333B                 | VEP80333B                 | VEP80333B                 |
| 33. POWER FILTER            | VEP81058A                 | VEP81058A                 | VEP81058A                 |
| 34. POWER SUPPLY UNIT       | VYK3637                   | VYK3637                   | VYK3637                   |
| 35. RA & HA                 | VEP85015D                 | VEP85015F                 | VEP85015E                 |
| 36. TR SENSOR (1)           | VEP00E27C                 | VEP00E27C                 | VEP00E27C                 |
| 37. TR SENSOR (2)           | VEP00E28C                 | VEP00E28C                 | VEP00E28C                 |
| 38. UNLOADING PHOTO         | VEP00E25C                 | VEP00E25C                 | VEP00E25C                 |
| 39. VIDEO IN/OUT            | VEP83097C                 | VEP83097B                 | VEP83097B                 |
| 40. YC IN/OUT               | VEP80574A                 | VEP80574A                 | VEP80574A                 |
| 41. 9P REMOTE               | VEP80551A                 | VEP80551A                 | VEP80551A                 |

# ELECTRICAL REPLACEMENT PARTS LIST

| Ref.No. | Part No.  | Part Name & Description | Pcs | Remarks         | Ref.No. | Part No.  | Part Name & Description   | Pcs | Remarks         |
|---------|-----------|-------------------------|-----|-----------------|---------|-----------|---------------------------|-----|-----------------|
|         | VEP80548A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-P,E,B |         |           | B1 SYSTEM CONTROL         |     |                 |
|         |           | W0 MOTHER 1             |     |                 |         | VEP80688M | P.C. BOARD W/COMPONENT    | 1   | FOR AU-62-E,B   |
|         | VEP80548C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62-P,E,B |         |           | B1 SYSTEM CONTROL         |     |                 |
|         |           | W0 MOTHER 1             |     |                 |         |           |                           |     |                 |
|         | VEP80548D | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63-P,E,B |         | VEP82062A | P.C. BOARD W/COMPONENT    | 1   | FOR AU-63-P,E,B |
|         |           | W0 MOTHER 1             |     |                 |         |           | AT POWER                  |     |                 |
|         |           |                         |     |                 |         |           |                           |     |                 |
|         | VEP88062A | P.C. BOARD W/COMPONENT  | 1   |                 |         | VEP84094A | P.C. BOARD W/COMPONENT    | 1   | FOR AU-65-P,E,B |
|         |           | W1 TBC & SYNCOGEN       |     |                 |         |           | AUDIO IN/OUT              |     |                 |
|         | VEP88062C | P.C. BOARD W/COMPONENT  | 1   |                 |         | VEP84094C | P.C. BOARD W/COMPONENT    | 1   | FOR AU-63-P,E,B |
|         |           | W1 TBC & SYNCOGEN       |     |                 |         |           | AUDIO IN/OUT              |     | AU-62-P,E,B     |
|         |           |                         |     |                 |         | VEP80573A | P.C. BOARD W/COMPONENT    | 1   |                 |
|         | VEP88063A | P.C. BOARD W/COMPONENT  | 1   |                 |         |           | AUDIO IN/OUT SUB          |     |                 |
|         |           | W2 ENCODER              |     |                 |         |           |                           |     |                 |
|         | VEP88063C | P.C. BOARD W/COMPONENT  | 1   |                 |         | VEP84101A | P.C. BOARD W/COMPONENT    | 1   | FOR AU-65-P,E,B |
|         |           | W2 ENCODER              |     |                 |         |           | AUDIO VR                  |     |                 |
|         | VEP80632A | P.C. BOARD W/COMPONENT  | 1   | ON VEP88063C    |         | VEP84101B | P.C. BOARD W/COMPONENT    | 1   | FOR AU-62-P,E,B |
|         |           | W29 SC SUB              |     |                 |         |           | AUDIO VR                  |     |                 |
|         |           |                         |     |                 |         | VEP84101C | P.C. BOARD W/COMPONENT    | 1   | FOR AU-63-P,E,B |
|         | VEP83098A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-P     |         |           | AUDIO VR                  |     |                 |
|         |           | W3 MOD & DEMOD          |     |                 |         |           |                           |     |                 |
|         | VEP83098C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62-P     |         | VEP00808C | P.C. BOARD W/COMPONENT    | 1   |                 |
|         |           | W3 MOD & DEMOD          |     |                 |         |           | AUTO OFF LED              |     |                 |
|         | VEP83098D | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63-P     |         |           |                           |     |                 |
|         |           | W3 MOD & DEMOD          |     |                 |         | VEP00E72A | P.C. BOARD W/COMPONENT    | 1   |                 |
|         | VEP83098E | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-E,B   |         |           | CASSETTE CARRIAGE LAMP    |     |                 |
|         |           | W3 MOD & DEMOD          |     |                 |         |           |                           |     |                 |
|         | VEP83098F | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63-E,B   |         | VEP00E30A | P.C. BOARD W/COMPONENT    | 1   |                 |
|         |           | W3 MOD & DEMOD          |     |                 |         |           | CASSETTE DETECT           |     |                 |
|         | VEP83098G | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62-E,B   |         |           |                           |     |                 |
|         |           | W3 MOD & DEMOD          |     |                 |         | VEP80422B | P.C. BOARD W/COMPONENT    | 1   |                 |
|         | VEP80667A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-E,B   |         |           | EJECT INTERFACE           |     |                 |
|         |           | W3 SUB                  |     | ON VEP83098E    |         |           |                           |     |                 |
|         |           |                         |     |                 |         | VEP80232A | P.C. BOARD W/COMPONENT    | 1   |                 |
|         | VEP83099A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-P     |         |           | EJECT SW                  |     |                 |
|         |           | W4 DEC & CTCM           |     |                 |         |           |                           |     |                 |
|         | VEP83099B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-E,B   |         | VEP80553A | P.C. BOARD W/COMPONENT    | 1   | FOR AU-65-P     |
|         |           | W4 DEC & CTCM           |     |                 |         |           | FRONT INTERFACE           |     |                 |
|         |           |                         |     |                 |         | VEP80553B | P.C. BOARD W/COMPONENT    | 1   | FOR AU-62-P     |
|         | VEP82061A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-P     |         |           | FRONT INTERFACE           |     |                 |
|         |           | W5 SERVO                |     |                 |         | VEP80553C | P.C. BOARD W/COMPONENT    | 1   | FOR AU-63-P     |
|         | VEP82061C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62-P     |         |           | FRONT INTERFACE           |     |                 |
|         |           | W5 SERVO                |     |                 |         | VEP80631A | P.C. BOARD W/COMPONENT    | 1   | FOR AU-65-E,B   |
|         | VEP82061D | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63-P     |         |           | FRONT INTERFACE           |     |                 |
|         |           | W5 SERVO                |     |                 |         | VEP80631B | P.C. BOARD W/COMPONENT    | 1   | FOR AU-63-E,B   |
|         | VEP82061E | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-E,B   |         |           | FRONT INTERFACE           |     |                 |
|         |           | W5 SERVO                |     | AU-62-E,B       |         | VEP80631C | P.C. BOARD W/COMPONENT    | 1   | FOR AU-62-E,B   |
|         | VEP82061F | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63-E,B   |         |           | FRONT INTERFACE           |     |                 |
|         |           | W5 SERVO                |     |                 |         |           |                           |     |                 |
|         |           |                         |     |                 |         | VEP80440A | P.C. BOARD W/COMPONENT    | 1   |                 |
|         | VEP84095A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-P     |         |           | FRONT LOADING             |     |                 |
|         |           | W6 AUDIO                |     |                 |         |           |                           |     |                 |
|         | VEP84095C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63-P     |         | VEP80559A | P.C. BOARD W/COMPONENT    | 1   | FOR AU-65-P,E,B |
|         |           | W6 AUDIO                |     | AU-62-P         |         |           | FRONT MODE SELECT CIRCUIT |     |                 |
|         | VEP84095D | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-E,B   |         | VEP80559C | P.C. BOARD W/COMPONENT    | 1   | FOR AU-62-P,E,B |
|         |           | W6 AUDIO                |     |                 |         |           | FRONT MODE SELECT CIRCUIT |     |                 |
|         | VEP84095E | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63-E,B   |         | VEP80559D | P.C. BOARD W/COMPONENT    | 1   | FOR AU-63-P,E,B |
|         |           | W6 AUDIO                |     | AU-62-E,B       |         |           | FRONT MODE SELECT CIRCUIT |     |                 |
|         | VEP80634A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-E,B   |         |           |                           |     |                 |
|         |           | W6S TC TRAP SUB         |     | ON VEP84095D    |         | VEP86050C | P.C. BOARD W/COMPONENT    | 1   | FOR AU-65-P     |
|         |           |                         |     |                 |         |           | FRONT PANEL A             |     |                 |
|         | VEP80549A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-P,E,B |         | VEP86050D | P.C. BOARD W/COMPONENT    | 1   | FOR AU-65-E,B   |
|         |           | W0 MOTHER 2             |     | AU-62-P,E,B     |         |           | FRONT PANEL A             |     |                 |
|         | VEP80549B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63-P,E,B |         | VEP86086A | P.C. BOARD W/COMPONENT    | 1   | FOR AU-63-P,E,B |
|         |           | W0 MOTHER 2             |     |                 |         |           | FRONT PANEL A             |     | FOR AU-62-P,E,B |
|         |           |                         |     |                 |         |           |                           |     |                 |
|         | VEP86088A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-P     |         | VEP86022A | P.C. BOARD W/COMPONENT    | 1   | FOR AU-65-P,E,B |
|         |           | B1 SYSTEM CONTROL       |     |                 |         |           | FRONT PANEL B             |     |                 |
|         | VEP86088C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62-P     |         | VEP86076C | P.C. BOARD W/COMPONENT    | 1   | FOR AU-63-P     |
|         |           | B1 SYSTEM CONTROL       |     |                 |         |           | FRONT PANEL B             |     | FOR AU-62-P     |
|         | VEP86088D | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63-P     |         | VEP86076D | P.C. BOARD W/COMPONENT    | 1   | FOR AU-63-E,B   |
|         |           | B1 SYSTEM CONTROL       |     |                 |         |           | FRONT PANEL B             |     | FOR AU-62-E,B   |
|         | VEP86088E | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65-E,B   |         |           |                           |     |                 |
|         |           | B1 SYSTEM CONTROL       |     |                 |         | VEP86048F | P.C. BOARD W/COMPONENT    | 1   | FOR AU-65-P     |
|         | VEP86088F | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63-E,B   |         |           | FRONT PANEL C             |     |                 |

Refer to the P.C. BOARDS LIST, page 5-1-1, before using this page.

| Ref.No. | Part No.  | Part Name & Description                           | Pcs | Remarks                            | Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---------|-----------|---|-----|------------------------------------|---------|----------|-------------------------|-----|---------|
|         | VEP86048G | P.C. BOARD W/COMPONENT<br>FRONT PANEL C           | 1   | FOR AU-65-E,B                      |         |          |                         |     |         |
|         | VEP80552A | P.C. BOARD W/COMPONENT<br>FRONT SW VR             | 1   |                                    |         |          |                         |     |         |
|         | VEP80108A | P.C. BOARD W/COMPONENT<br>HEADPHONE VR            | 1   |                                    |         |          |                         |     |         |
|         | VEP80616A | P.C. BOARD W/COMPONENT<br>HEADPHONE VR            | 1   |                                    |         |          |                         |     |         |
|         | VEP00E04B | P.C. BOARD W/COMPONENT<br>LOADING PHOTO           | 1   |                                    |         |          |                         |     |         |
|         | VEP80550A | P.C. BOARD W/COMPONENT<br>MECHA INTERFACE CIRCUIT | 1   |                                    |         |          |                         |     |         |
|         | VEP80333B | P.C. BOARD W/COMPONENT<br>PIETER LAMP             | 1   |                                    |         |          |                         |     |         |
|         | VEP81042A | P.C. BOARD W/COMPONENT<br>POWER FILTER            | 1   |                                    |         |          |                         |     |         |
|         | VEP81058A | P.C. BOARD W/COMPONENT<br>POWER FILTER            | 1   |                                    |         |          |                         |     |         |
|         | VYK3004   | P.C. BOARD W/COMPONENT<br>POWER SUPPLY UNIT       | 1   |                                    |         |          |                         |     |         |
|         | VYK3637   | P.C. BOARD W/COMPONENT<br>POWER SUPPLY UNIT       | 1   |                                    |         |          |                         |     |         |
|         | VEP85015A | P.C. BOARD W/COMPONENT<br>RA & HA                 | 1   | FOR AU-65-P                        |         |          |                         |     |         |
|         | VEP85015B | P.C. BOARD W/COMPONENT<br>RA & HA                 | 1   | FOR AU-62-P                        |         |          |                         |     |         |
|         | VEP85015C | P.C. BOARD W/COMPONENT<br>RA & HA                 | 1   | FOR AU-63-P                        |         |          |                         |     |         |
|         | VEP85015D | P.C. BOARD W/COMPONENT<br>RA & HA                 | 1   | FOR AU-65-E,B                      |         |          |                         |     |         |
|         | VEP85015E | P.C. BOARD W/COMPONENT<br>RA & HA                 | 1   | FOR AU-62-E,B                      |         |          |                         |     |         |
|         | VEP85015F | P.C. BOARD W/COMPONENT<br>RA & HA                 | 1   | FOR AU-63-E,B                      |         |          |                         |     |         |
|         | VEP00E27C | P.C. BOARD W/COMPONENT<br>TR SENSOR (1)           | 1   |                                    |         |          |                         |     |         |
|         | VEP00E28C | P.C. BOARD W/COMPONENT<br>TR SENSOR (2)           | 1   |                                    |         |          |                         |     |         |
|         | VEP00E25C | P.C. BOARD W/COMPONENT<br>UNLOADING PHOTO         | 1   |                                    |         |          |                         |     |         |
|         | VEP83097A | P.C. BOARD W/COMPONENT<br>VIDEO IN/OUT            | 1   | FOR AU-65-P                        |         |          |                         |     |         |
|         | VEP83097B | P.C. BOARD W/COMPONENT<br>VIDEO IN/OUT            | 1   | FOR AU-63-P,E,B<br>FOR AU-62-P,E,B |         |          |                         |     |         |
|         | VEP83097C | P.C. BOARD W/COMPONENT<br>VIDEO IN/OUT            | 1   | FOR AU-65-E,B                      |         |          |                         |     |         |
|         | VEP80574A | P.C. BOARD W/COMPONENT<br>YC IN/OUT               | 1   |                                    |         |          |                         |     |         |
|         | VEP80551A | P.C. BOARD W/COMPONENT<br>9P REMOVE               | 1   |                                    |         |          |                         |     |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.



| Ref.No. | Part No.    | Part Name & Description               | Pcs | Remarks         |
|---------|-------------|---------------------------------------|-----|-----------------|
|         | VEP80548A   | P.C. BOARD W/COMPONENT<br>NO MOTHER 1 |     | FOR AU-65-F,E,B |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             | CAPACITORS                            |     |                 |
| C1,C2   | ECFA1CU221  | E. CAPACITOR 16V 220U                 | 2   |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
| CN8     | WJP1229T    | CONNECTOR(MALE) 2P                    | 1   |                 |
| CN9     | WJP1230T    | CONNECTOR(MALE)                       | 1   |                 |
| CN12-14 | WJP1511T    | CONNECTOR(MALE)                       | 3   |                 |
| CN15    | WJP1932T    | CONNECTOR (MALE)                      | 1   |                 |
| CN17    | WJP1235T    | CONNECTOR(MALE) 6P                    | 1   |                 |
| CN20    | WJP2893A064 | CONNECTOR (MALE)                      | 1   |                 |
| CN21    | WJP1233T    | CONNECTOR(MALE) 6P                    | 1   |                 |
| CN22,23 | WJP1232T    | CONNECTOR(MALE) 5P                    | 2   |                 |
| CN24    | WJP1931T    | CONNECTOR (MALE)                      | 1   |                 |
| CN25    | WJP1237T    | CONNECTOR(MALE) 10P                   | 1   |                 |
| CN26    | WJP1931T    | CONNECTOR (MALE)                      | 1   |                 |
| CN28    | WJP1231T    | CONNECTOR(MALE) 4P                    | 1   |                 |
| CN30,31 | WJP1932T    | CONNECTOR (MALE)                      | 2   |                 |
| CN36    | WJP1239T    | CONNECTOR(MALE) 12P                   | 1   |                 |
| CN39    | WJP1239T    | CONNECTOR(MALE) 12P                   | 1   |                 |
| CN40    | WJP1929T    | CONNECTOR (MALE)                      | 1   |                 |
| CN41,42 | WJP1932T    | CONNECTOR (MALE)                      | 2   |                 |
| CN46    | WJP1252T    | CONNECTOR(MALE) 12P                   | 1   |                 |
| CN48    | WJP1237T    | CONNECTOR(MALE) 10P                   | 1   |                 |
| CN600   | WJP1230T    | CONNECTOR(MALE) 3P                    | 1   |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
| POWER1  | WJP1709     | CONNECTOR (MALE)                      | 1   |                 |
| POWER2  | WJP1627     | CONNECTOR(MALE)                       | 1   |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
| WAF     | VJ52898A100 | CONNECTOR (FEMALE)                    | 1   |                 |
| WAR     | VJ52898A100 | CONNECTOR (FEMALE)                    | 1   |                 |
|         |             |                                       |     |                 |
|         |             | MISCELLANEOUS                         |     |                 |
|         | WJF0004     | CLAMPER                               | 1   |                 |
|         | WMP2617     | P.C.B. HOLDER ANGLE                   | 1   |                 |
|         | WMP2618     | P.C.B. HOLDER ANGLE                   | 1   |                 |
|         | WMP2619     | P.C.B. HOLDER ANGLE                   | 1   |                 |
|         | XNG26E      | NUT                                   | 8   |                 |
|         | XTV26+10F   | SCREW                                 | 24  |                 |
|         | XWA26B      | WASHER                                | 8   |                 |
|         | XWG26       | NUT                                   | 8   |                 |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.

| Ref.No. | Part No.    | Part Name & Description               | Pcs | Remarks         |
|---------|-------------|---------------------------------------|-----|-----------------|
|         | VEP80548C   | P.C. BOARD W/COMPONENT<br>NO MOTHER 1 |     | FOR AD-62-F,E,B |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             | CAPACITORS                            |     |                 |
| C1,C2   | ECFA1CU221  | E. CAPACITOR 16V 220U                 | 2   |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
| CN8     | WJP1229T    | CONNECTOR(MALE) 2P                    | 1   |                 |
| CN12-14 | WJP1511T    | CONNECTOR(MALE)                       | 3   |                 |
| CN15    | WJP1932T    | CONNECTOR (MALE)                      | 1   |                 |
| CN17    | WJP1235T    | CONNECTOR(MALE) 6P                    | 1   |                 |
| CN20    | WJP2893A064 | CONNECTOR (MALE)                      | 1   |                 |
| CN21    | WJP1233T    | CONNECTOR(MALE) 6P                    | 1   |                 |
| CN22,23 | WJP1232T    | CONNECTOR(MALE) 5P                    | 2   |                 |
| CN24    | WJP1931T    | CONNECTOR (MALE)                      | 1   |                 |
| CN25    | WJP1237T    | CONNECTOR(MALE) 10P                   | 1   |                 |
| CN26    | WJP1931T    | CONNECTOR (MALE)                      | 1   |                 |
| CN28    | WJP1231T    | CONNECTOR(MALE) 4P                    | 1   |                 |
| CN30,31 | WJP1932T    | CONNECTOR (MALE)                      | 2   |                 |
| CN36    | WJP1239T    | CONNECTOR(MALE) 12P                   | 1   |                 |
| CN39    | WJP1239T    | CONNECTOR(MALE) 12P                   | 1   |                 |
| CN40    | WJP1929T    | CONNECTOR (MALE)                      | 1   |                 |
| CN41,42 | WJP1932T    | CONNECTOR (MALE)                      | 2   |                 |
| CN46    | WJP1252T    | CONNECTOR(MALE) 12P                   | 1   |                 |
| CN48    | WJP1237T    | CONNECTOR(MALE) 10P                   | 1   |                 |
| CN600   | WJP1230T    | CONNECTOR(MALE) 3P                    | 1   |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
| POWER1  | WJP1709     | CONNECTOR (MALE)                      | 1   |                 |
| POWER2  | WJP1627     | CONNECTOR(MALE)                       | 1   |                 |
|         |             |                                       |     |                 |
|         |             |                                       |     |                 |
|         |             | MISCELLANEOUS                         |     |                 |
|         | WJF0004     | CLAMPER                               | 1   |                 |
|         | WJF0304     | CLAMPER                               | 4   |                 |
|         | WMP2617     | P.C.B. HOLDER ANGLE                   | 1   |                 |
|         | WMP2618     | P.C.B. HOLDER ANGLE                   | 1   |                 |
|         | WMP2619     | P.C.B. HOLDER ANGLE                   | 1   |                 |
|         | XNG26E      | NUT                                   | 8   |                 |
|         | XTV26+10F   | SCREW                                 | 24  |                 |
|         | XWA26B      | WASHER                                | 8   |                 |
|         | XWG26       | NUT                                   | 8   |                 |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.



| Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks | Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|----------|--------------|---------------------------|-----|---------|
|          | VER98062A    | P.C. BOARD W/COMPONENT    |     |         | C228     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              | W/ TBC & SYNCOGEN         |     |         | C229     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |         | C230     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |         | C231     | ECEA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 1   |         |
|          |              |                           |     |         | C232     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |         | C233     | ECUM1E270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
|          |              |                           |     |         | C234     | ECV12W20X5ST | V. CAPACITOR 20P          | 1   |         |
|          |              |                           |     |         | C235     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |
|          |              |                           |     |         | C236     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |         | C237     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
|          |              | CAPACITORS                |     |         | C238, 39 | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 2   |         |
| C1       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C240     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C2       | ECEA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         | C241, 42 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C3       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C243     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C4       | ECEA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         | C244-46  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |         |
| C5       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C247     | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |         |
| C6       | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         | C248     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C7       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C249     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C8       | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         | C250     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C9       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C251     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C10      | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         | C252     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C11      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C253     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C12      | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         | C254, 55 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C13      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C256     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C14      | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         | C257     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C15, 16  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | C258     | ECEA1HN010S  | E. CAPACITOR 50V 1U       | 1   |         |
| C17      | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         | C259     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C18-22   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 5   |         | C260     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C23      | ECEA1CU220   | E. CAPACITOR 16V 22U      | 1   |         | C261     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C24      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C262     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C25      | ECEA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1   |         | C263     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C26      | ECEA1CU220   | E. CAPACITOR 16V 22U      | 1   |         | C264     | ECEA1CN100S  | E. CAPACITOR 16V 10U      | 1   |         |
| C27      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C265     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |
| C28      | ECEA1CU220   | E. CAPACITOR 16V 22U      | 1   |         | C266     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |         |
| C29-33   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 5   |         | C267, 68 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C34      | ECEA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1   |         | C270     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C35      | ECEA1CU220   | E. CAPACITOR 16V 22U      | 1   |         | C271-73  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |         |
| C36      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C274     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C37      | ECEA1AU221   | E. CAPACITOR 10V 220U     | 1   |         | C275     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |
| C38      | ECEA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1   |         | C276     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C39      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C277     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C40      | ECEA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         | C279     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C41-48   | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 8   |         | C280, 81 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C49-52   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |         | C282     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C53      | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         | C283     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |
| C57, 58  | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 2   |         | C284     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C59, 60  | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         | C286-91  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 6   |         |
| C61-64   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |         | C292     | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C65      | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         | C401     | ECUM1H222JF  | P. CAPACITOR 50V 2200P    | 1   |         |
| C66      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C402     | ECUM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
| C67-73   | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 7   |         | C403     | ECUM1H222JF  | P. CAPACITOR 50V 2200P    | 1   |         |
| C74-78   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 5   |         | C404     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C79      | ECEA1CU220   | E. CAPACITOR 16V 22U      | 1   |         | C406     | ECUM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         |
| C81      | ECUM1H474JZ  | P. CAPACITOR 50V 0.47U    | 1   |         | C409     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C201     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         | C410, 11 | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 2   |         |
| C202, 03 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C412     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C204     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         | C413     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C205     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C414-18  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 5   |         |
| C206     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         | C423     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C207     | ECUM1H580JCN | C. CAPACITOR CH 50V 68P   | 1   |         | C424     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C208, 09 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         | C425     | ECUM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         |
| C210     | ECEA1HN010S  | E. CAPACITOR 50V 1U       | 1   |         | C426     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C211     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C427     | ECUM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         |
| C212     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C438     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C213     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | C441     | ECUM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         |
| C214     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         | C442     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C215     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         | C443, 44 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C216     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         | C452     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C217     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         | C453     | ECUM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
| C218     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C454     | ECUM1H122JF  | P. CAPACITOR 50V 1200P    | 1   |         |
| C219-22  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |         | C455     | ECUM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C223, 24 | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 2   |         | C456     | ECEA1CN100S  | E. CAPACITOR 16V 10U      | 1   |         |
| C225     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         | C457     | ECUM1H561JCN | C. CAPACITOR CH 50V 560P  | 1   |         |
| C226     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         | C458     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C227     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C459     | ECEA1AU220   | E. CAPACITOR 10V 22U      | 1   |         |

Refer to the P.C. BOARDS LIST, page 5-1-1, before using this page.

| Ref. No. | Part No.     | Part Name & Description   | Pcs   | Remarks | Ref. No.  | Part No.     | Part Name & Description | Pcs   | Remarks |
|----------|--------------|---------------------------|-------|---------|-----------|--------------|-------------------------|-------|---------|
| C460, 61 | ECUM1H104JCN | C. CAPACITOR CH 50V 100P  | 2     |         | IC27      | N74F02D      | IC                      | 1     |         |
| C462     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         | IC28-35   | MB8464A80LPP | IC                      | 8     |         |
| C463     | ECFA1AU220   | E. CAPACITOR 10V 22U      | 1     |         | IC36      | MC74HC574F   | IC                      | 1 (R) |         |
| C464     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1     |         | IC37      | MSM76H012GSK | IC                      | 1     |         |
| C465     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1     |         | IC38-44   | MB8464A80LPP | IC                      | 7     |         |
| C467     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         | IC45      | UPD65013FMA4 | IC                      | 1     |         |
| C468     | ECFA1AU220   | E. CAPACITOR 10V 22U      | 1     |         | IC46-48   | MB40778PF    | IC                      | 3     |         |
| C469, 70 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2     |         | IC49      | AN78L09      | IC                      | 1     |         |
| C471     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1     |         | IC50      | AN79L09      | IC                      | 1     |         |
| C473     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         | IC51      | AN78N05      | IC                      | 1     |         |
| C474     | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1     |         | IC53      | N74F109D     | IC                      | 1     |         |
| C475     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         | IC54, 55  | RC082BM      | IC                      | 2     |         |
| C476     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1     |         | IC57      | RC082BM      | IC                      | 1     |         |
| C477     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         | IC59      | RC082BM      | IC                      | 1     |         |
| C478     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1     |         | IC201     | AN91A12S     | IC                      | 1     |         |
| C479     | ECUM1H103JF  | P. CAPACITOR 50V 0.01U    | 1     |         | IC202     | SNW53015V2W  | IC                      | 1     |         |
| C480     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1     |         | IC203     | UPD65024F152 | IC                      | 1     |         |
| C481     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1     |         | IC204     | UPD65040F144 | IC                      | 1     |         |
| C482     | ECQPH122JF   | P. CAPACITOR 50V 1200P    | 1     |         | IC205     | NE521D       | IC                      | 1     |         |
| C483     | ECQPH103JF   | P. CAPACITOR 50V 0.01U    | 1     |         | IC206, 07 | PN74HC221S   | IC                      | 2     |         |
| C484     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         | IC208     | MC74HC32AF   | IC                      | 1     |         |
| C485     | ECFA1AU220   | E. CAPACITOR 10V 22U      | 1     |         | IC209     | MC14053BP    | IC                      | 1 (R) |         |
| C486     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         | IC210     | RC082BM      | IC                      | 1     |         |
| C487     | ECFA1HUR47   | E. CAPACITOR 50V 0.47U    | 1     |         | IC211     | NE521D       | IC                      | 1     |         |
| C488     | ECFA1HNO10S  | E. CAPACITOR 50V 1U       | 1     |         | IC212     | MC74HC04AF   | IC                      | 1     |         |
| C489     | ECFA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1     |         | IC213     | MC74HC125AF  | IC                      | 1     |         |
| C490     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1     |         | IC214     | MC74HC02AF   | IC                      | 1     |         |
| C491     | ECQPH223JF   | P. CAPACITOR 50V 0.022U   | 1     |         | IC216, 17 | UPC4082G     | IC                      | 2     |         |
| C504     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1     |         | IC218     | DN74LS04NS   | IC                      | 1     |         |
| C514     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         | IC220     | MC74HC74AF   | IC                      | 1     |         |
| C517     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1     |         | IC221, 22 | RC082BM      | IC                      | 2     |         |
| C518-20  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3     |         | IC223     | MC74HC04AF   | IC                      | 1     |         |
| C521     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1     |         | IC224     | MC74HC09AF   | IC                      | 1     |         |
| C522     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         | IC225, 26 | MC74HC04AF   | IC                      | 2     |         |
| C523     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1     |         | IC228     | AN78L09      | IC                      | 1     |         |
| C524     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         | IC229     | AN79L05      | IC                      | 1     |         |
| C525     | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1     |         | IC230     | AN78L09      | IC                      | 1     |         |
| C528     | ECFA1AU220   | E. CAPACITOR 10V 22U      | 1     |         | IC231-33  | AN78L05      | IC                      | 3     |         |
| C529     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         | IC401     | MC74HC86F    | IC                      | 1     |         |
| C551     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         | IC402     | SN74LS221NS  | IC                      | 1     |         |
| C600-09  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 10    |         | IC403     | MC74HC00AF   | IC                      | 1     |         |
| C614, 15 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 11    |         | IC405     | UPD65022B264 | IC                      | 1     |         |
|          |              |                           |       |         | IC409     | MC74HC00AF   | IC                      | 1     |         |
|          |              |                           |       |         | IC410     | SN75452BPS   | IC                      | 1     |         |
|          |              |                           |       |         | IC411     | UPC319G2     | IC                      | 1     |         |
| D201     | MA151WA      | DIODE                     | 1     |         | IC412     | MC74HC04AF   | IC                      | 1     |         |
| D202     | MA335R       | DIODE                     | 2     |         | IC413     | SN74LS123NS  | IC                      | 1     |         |
| D203-10  | MA151K       | DIODE                     | 8     |         | IC415     | SN74LS123NS  | IC                      | 1     |         |
| D211     | MA151WK      | DIODE                     | 1     |         | IC416     | UPD65022C252 | IC                      | 1     |         |
| D212     | MA151K       | DIODE                     | 1     |         | IC418     | SN74LS123NS  | IC                      | 1     |         |
| D401     | 1SS101       | DIODE                     | 1     |         | IC419     | MC74HC4053F  | IC                      | 1     |         |
| D402     | MA151K       | DIODE                     | 1     |         | IC420, 21 | RC082BM      | IC                      | 2     |         |
| D404     | MA153        | DIODE                     | 1     |         | IC422     | AN79L05      | IC                      | 1     |         |
| D406     | MA151K       | DIODE                     | 1     |         | IC423     | AN78L05      | IC                      | 1     |         |
| D407     | MA335R       | DIODE                     | 1     |         | IC424     | MC1648P      | IC                      | 1     |         |
| D408-10  | MA151K       | DIODE                     | 9     |         | IC425     | MC10125L     | IC                      | 1     |         |
| D416, 17 | MA151K       | DIODE                     | 2     |         | IC426     | N74F85D      | IC                      | 1     |         |
|          |              |                           |       |         | IC427, 28 | N74F109D     | IC                      | 2     |         |
|          |              |                           |       |         | IC429     | SN74LS221NS  | IC                      | 1     |         |
|          |              |                           |       |         | IC430     | AN79L05      | IC                      | 1     |         |
| IC1, C2  | CY7C128-45PC | IC                        | 2     |         | IC431     | AN79L09      | IC                      | 1     |         |
| IC4, C5  | MC74HC574F   | IC                        | 2 (R) |         | IC432     | AN78L09      | IC                      | 1     |         |
| IC7      | UPD65013F101 | IC                        | 1     |         | IC433     | SN74LS123NS  | IC                      | 1     |         |
| IC9      | MC74HC574F   | IC                        | 1 (R) |         | IC434     | SN74LS221NS  | IC                      | 1     |         |
| IC11     | MC74HC08AF   | IC                        | 1     |         | IC435     | RC082BM      | IC                      | 1     |         |
| IC13, 14 | CY7C128-45PC | IC                        | 2     |         | IC436     | MC74HC4053F  | IC                      | 1     |         |
| IC15, 16 | MC74HC574F   | IC                        | 2 (R) |         | IC437     | AN78L05      | IC                      | 1     |         |
| IC17     | UPD65012F475 | IC                        | 1     |         | IC438     | UPC358G2     | IC                      | 1     |         |
| IC18, 19 | MC74HC574F   | IC                        | 2 (R) |         | IC439     | SN74LS624NS  | IC                      | 1     |         |
| IC20     | N74F02D      | IC                        | 1     |         | IC441     | MC74HC74AF   | IC                      | 1     |         |
| IC21     | N74F04D      | IC                        | 1     |         | IC442     | MC74HC125AF  | IC                      | 1     |         |
| IC22     | MC74HC574F   | IC                        | 1 (R) |         | IC443     | MC74HC00AF   | IC                      | 1     |         |
| IC24     | MSM77H021GSK | IC                        | 1     |         | IC444     | RC082BM      | IC                      | 1     |         |
| IC25     | MSM71056     | IC                        | 1     |         | IC445     | NE521D       | IC                      | 1     |         |
| IC26     | V810192      | IC                        | 1     |         | IC446     | MC74HC00AF   | IC                      | 1     |         |

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| Ref.No.  | Part No.     | Part Name & Description   | Pos | Remarks |
|----------|--------------|---------------------------|-----|---------|
|          | VEP8062C     | P.C. BOARD W/COMPONENT    |     |         |
|          |              | W/ TBC & SYNCEN           |     |         |
|          |              |                           |     |         |
|          |              |                           |     |         |
|          |              |                           |     |         |
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|          |              |                           |     |         |
|          |              |                           |     |         |
|          |              |                           |     |         |
|          |              | CAPACITORS                |     |         |
| C1       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C2       | ECFA0J101    | E. CAPACITOR 6.3V 100U    | 1   |         |
| C3       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C4       | ECFA0J101    | E. CAPACITOR 6.3V 100U    | 1   |         |
| C5       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C6       | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C7       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C8       | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C9       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C10      | ECFA1AU101   | E. CAPACITOR 10V 100U     | 2   |         |
| C11      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C12      | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C13      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C14      | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C15, 16  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C17      | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C18-22   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 5   |         |
| C23      | ECFA1CU220   | E. CAPACITOR 16V 22U      | 1   |         |
| C24      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C25      | ECFA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1   |         |
| C26      | ECFA1CU220   | E. CAPACITOR 16V 22U      | 1   |         |
| C27      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C28      | ECFA1CU220   | E. CAPACITOR 16V 22U      | 1   |         |
| C29-33   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 5   |         |
| C34      | ECFA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1   |         |
| C35      | ECFA1CU220   | E. CAPACITOR 16V 22U      | 1   |         |
| C36      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C37      | ECFA1AU221   | E. CAPACITOR 10V 220U     | 1   |         |
| C38      | ECFA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1   |         |
| C39      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C40      | ECFA0J101    | E. CAPACITOR 6.3V 100U    | 1   |         |
| C41-48   | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 8   |         |
| C49-52   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |         |
| C53      | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C57, 58  | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 2   |         |
| C59, 60  | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         |
| C61-64   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |         |
| C65      | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C66      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C67-73   | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 7   |         |
| C74-78   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 5   |         |
| C79      | ECFA1CU220   | E. CAPACITOR 16V 22U      | 1   |         |
| C81      | ECQV1H474J2  | P. CAPACITOR 50V 0.47U    | 1   |         |
| C201     | ECFA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C202, 03 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C204     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         |
| C205     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C206     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
| C207     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C208, 09 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         |
| C210     | ECFA1HNO10S  | E. CAPACITOR 50V 1U       | 1   |         |
| C211     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C212     | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C213     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C214     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C215     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         |
| C216     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C217     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C218     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C219-22  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |         |
| C225     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C226     | ECFA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C227     | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C228     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |

| Ref.No.  | Part No.     | Part Name & Description   | Pos | Remarks |
|----------|--------------|---------------------------|-----|---------|
| C229     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C230     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C231     | ECFA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 1   |         |
| C232     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C233     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C234     | ECV12W20K53T | V. CAPACITOR 20P          | 1   |         |
| C235     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |
| C236     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C237     | ECFA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C238     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |         |
| C239     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C240     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C241, 42 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C243     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C244-46  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |         |
| C247     | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |         |
| C248     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C250     | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C251     | ECFA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C252     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C253     | ECFA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C254, 55 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C256     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C257     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C258     | ECFA1HNO10S  | E. CAPACITOR 50V 1U       | 1   |         |
| C259     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C260     | ECFA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C261     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C262     | ECFA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C263     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C264     | ECFA1CN100S  | E. CAPACITOR 16V 10U      | 1   |         |
| C265     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |
| C266     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |         |
| C267, 68 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C270     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C271-73  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |         |
| C274     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C275     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |
| C276     | ECUM1H1042FN | C. CAPACITOR CH 50V 0.1U  | 1   |         |
| C277     | ECFA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C279     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C280, 81 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C282     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C283     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |
| C284     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C286-91  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 6   |         |
| C401     | ECQMH122JF   | P. CAPACITOR 50V 2200P    | 1   |         |
| C402     | ECQMH123JF   | P. CAPACITOR 50V 0.022U   | 1   |         |
| C403     | ECQMH122JF   | P. CAPACITOR 50V 2200P    | 1   |         |
| C406     | ECQMH102JF   | P. CAPACITOR 50V 1000P    | 1   |         |
| C407, 08 | ECQMH122JF   | P. CAPACITOR 50V 220P     | 2   |         |
| C409     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C410, 11 | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 2   |         |
| C412     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C413     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C414-16  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 5   |         |
| C423     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C424     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C425     | ECQMH102JF   | P. CAPACITOR 50V 1000P    | 1   |         |
| C426     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C427     | ECQMH102JF   | P. CAPACITOR 50V 1000P    | 1   |         |
| C438     | ECUM1H681JCN | C. CAPACITOR CH 50V 680P  | 1   |         |
| C441     | ECQMH102JF   | P. CAPACITOR 50V 1000P    | 1   |         |
| C442     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C443, 44 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C450     | ECQMH103JF   | P. CAPACITOR 50V 0.01U    | 1   |         |
| C452     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C453     | ECQMH122JF   | P. CAPACITOR 50V 0.022U   | 1   |         |
| C454     | ECQMH122JF   | P. CAPACITOR 50V 1200P    | 1   |         |
| C455     | ECQMH104JF   | P. CAPACITOR 50V 0.1U     | 1   |         |
| C456     | ECFA1CN100S  | E. CAPACITOR 16V 10U      | 1   |         |
| C457     | ECUM1H561JCN | C. CAPACITOR CH 50V 560P  | 1   |         |
| C458     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C459     | ECFA1AU220   | E. CAPACITOR 10V 22U      | 1   |         |
| C460, 61 | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 2   |         |

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| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks |
|---------|--------------|---------------------------|-----|---------|----------|--------------|-------------------------|-----|---------|
| C462    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC26     | VS10192      | IC                      | 1   |         |
| C463    | ECEA1AU220   | E. CAPACITOR 10V 22U      | 1   |         | IC27     | M74F02FP     | IC                      | 1   |         |
| C464    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |         | IC28-35  | MB8464A80L2F | IC                      | 1   |         |
| C465    | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         | IC36     | MC74HC574F   | IC                      | 1   |         |
| C467    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC37     | MSM76H012GSK | IC                      | 1   |         |
| C468    | ECEA1AU220   | E. CAPACITOR 10V 22U      | 1   |         | IC38-44  | MB8464A80L2F | IC                      | 7   |         |
| C469,70 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | IC45     | UPD65013FA44 | IC                      | 1   |         |
| C471    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         | IC46-48  | MB40778FP    | IC                      | 3   |         |
| C473    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC49     | AN78L09      | IC                      | 1   |         |
| C474    | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         | IC50     | AN79L09      | IC                      | 1   |         |
| C475    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC51     | AN78N05      | IC                      | 1   |         |
| C476    | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         | IC53     | M74F109FP    | IC                      | 1   |         |
| C477    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC54,55  | RC082BM      | IC                      | 2   |         |
| C478    | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         | IC57     | RC082BM      | IC                      | 1   |         |
| C479    | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         | IC59     | RC082BM      | IC                      | 1   |         |
| C480    | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | IC201    | AN91A12S     | IC                      | 1   |         |
| C481    | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         | IC202    | PN53015VZW   | IC                      | 1   |         |
| C482    | ECQM1H22JF   | P. CAPACITOR 50V 1200P    | 1   |         | IC203    | UPD65024F152 | IC                      | 1   |         |
| C483    | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         | IC204    | UPD65040F144 | IC                      | 1   |         |
| C484    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC205    | NE521D       | IC                      | 1   |         |
| C485    | ECEA1AU220   | E. CAPACITOR 10V 22U      | 1   |         | IC206,07 | MC74HC221S   | IC                      | 2   |         |
| C486    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC208    | MC74HC32AF   | IC                      | 1   |         |
| C487    | ECEA1HUR47   | E. CAPACITOR 50V 0.47U    | 1   |         | IC209    | MC14053BP    | IC                      | 1   | (R)     |
| C488    | ECEA1H010S   | E. CAPACITOR 50V 1U       | 1   |         | IC210    | RC082BM      | IC                      | 1   |         |
| C489    | ECEA1HUR2    | E. CAPACITOR 50V 2.2U     | 1   |         | IC211    | NE521D       | IC                      | 1   |         |
| C490    | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | IC212    | MC74HC04AF   | IC                      | 1   |         |
| C491    | ECQM1H22JF   | P. CAPACITOR 50V 0.022U   | 1   |         | IC213    | MC74HC125AF  | IC                      | 1   |         |
| C504    | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | IC214    | MC74HC02AF   | IC                      | 1   |         |
| C514    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC216,17 | UPC4082G     | IC                      | 2   |         |
| C517    | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | IC218    | DN74LS04NS   | IC                      | 1   |         |
| C518-20 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |         | IC220    | MC74HC74AF   | IC                      | 1   |         |
| C521    | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         | IC221,22 | RC082BM      | IC                      | 2   |         |
| C522    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC223    | MC74HC04AF   | IC                      | 1   |         |
| C523    | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         | IC224    | MC74HC08AF   | IC                      | 1   |         |
| C524    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC225,26 | MC74HC04AF   | IC                      | 2   |         |
| C525    | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         | IC228    | AN78L09      | IC                      | 1   |         |
| C528    | ECEA1AU220   | E. CAPACITOR 10V 22U      | 1   |         | IC229    | AN79L05      | IC                      | 1   |         |
| C529    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC230    | AN78L09      | IC                      | 1   |         |
| C551    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC231-33 | AN78L05      | IC                      | 3   |         |
| C600-09 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 10  |         | IC401    | MC74HC06F    | IC                      | 1   |         |
| C614,15 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | IC402    | SN74LS221NS  | IC                      | 1   |         |
|         |              |                           |     |         | IC403    | MC74HC00AF   | IC                      | 1   |         |
|         |              |                           |     |         | IC404    | MC74HC02AF   | IC                      | 1   |         |
|         |              |                           |     |         | IC405    | UPD65022B264 | IC                      | 1   |         |
|         |              |                           |     |         | IC409    | MC74HC00AF   | IC                      | 1   |         |
|         |              |                           |     |         | IC410    | SN75452BPS   | IC                      | 1   |         |
| D201    | MA151WA      | DIODE                     | 1   |         | IC411    | UPC319G2     | IC                      | 1   |         |
| D202    | MA335-R      | DIODE                     | 1   |         | IC412    | MC74HC04AF   | IC                      | 1   |         |
| D203    | MA151K       | DIODE                     | 1   |         | IC413    | SN74LS123NS  | IC                      | 1   |         |
| D206-10 | MA151K       | DIODE                     | 5   |         | IC415    | SN74LS123NS  | IC                      | 1   |         |
| D211    | MA151WK      | DIODE                     | 1   |         | IC416    | UPD65022C252 | IC                      | 1   |         |
| D212    | MA151K       | DIODE                     | 1   |         | IC418    | SN74LS123NS  | IC                      | 1   |         |
| D402    | MA151K       | DIODE                     | 1   |         | IC419    | MC74HC4053P  | IC                      | 1   |         |
| D404    | MA153        | DIODE                     | 1   |         | IC420,21 | RC082BM      | IC                      | 2   |         |
| D406    | MA151K       | DIODE                     | 1   |         | IC422    | AN79L05      | IC                      | 1   |         |
| D407    | MA335-R      | DIODE                     | 1   |         | IC423    | AN78L05      | IC                      | 1   |         |
| D408-10 | MA151K       | DIODE                     | 3   |         | IC424    | MC1648P      | IC                      | 1   |         |
| D416,17 | MA151K       | DIODE                     | 2   |         | IC425    | MC10125L     | IC                      | 1   |         |
|         |              |                           |     |         | IC426    | M74F86FP     | IC                      | 1   |         |
| IC1,C2  | CY7C128-45PC | IC                        | 2   |         | IC427,28 | M74F109FP    | IC                      | 2   |         |
| IC4,C5  | MC74HC574F   | IC                        | 2   |         | IC429    | SN74LS221NS  | IC                      | 1   |         |
| IC7     | UPD65013F101 | IC                        | 1   |         | IC430    | AN79L05      | IC                      | 1   |         |
| IC8     | UPD41101C    | IC                        | 1   |         | IC431    | AN79L09      | IC                      | 1   |         |
| IC9     | MC74HC574F   | IC                        | 1   |         | IC432    | AN78L09      | IC                      | 1   |         |
| IC10    | MC74HC574F   | IC                        | 1   |         | IC433    | SN74LS123NS  | IC                      | 1   |         |
| IC11    | MC74HC08AF   | IC                        | 1   |         | IC434    | SN74LS221NS  | IC                      | 1   |         |
| IC13,14 | CY7C128-45PC | IC                        | 2   |         | IC435    | RC082BM      | IC                      | 1   |         |
| IC15,16 | MC74HC574F   | IC                        | 2   |         | IC436    | MC74HC4053P  | IC                      | 1   |         |
| IC17    | UPD65012F475 | IC                        | 1   |         | IC437    | AN78L05      | IC                      | 1   |         |
| IC18,19 | MC74HC574F   | IC                        | 2   |         | IC438    | UPC359G2     | IC                      | 1   |         |
| IC20    | M74F02FP     | IC                        | 1   |         | IC439    | SN74LS624NS  | IC                      | 1   |         |
| IC21    | M74F04FP     | IC                        | 1   |         | IC441    | MC74HC74AF   | IC                      | 1   |         |
| IC22    | MC74HC574F   | IC                        | 1   |         | IC442    | MC74HC125P   | IC                      | 1   |         |
| IC24    | MSM77H021GSK | IC                        | 1   |         | IC443    | MC74HC00AF   | IC                      | 1   |         |
| IC25    | MSM71056     | IC                        | 1   |         | IC444    | RC082BM      | IC                      | 1   |         |

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| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|---------|----------|--------------|--------------------------|-----|---------|
|         | VEP8063A     | P.C. BOARD - M/COMPONENT |     |         | C126     | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |         |
|         |              | W2 ENCODER               |     |         | C127     | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         |
|         |              |                          |     |         | C128     | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
|         |              |                          |     |         | C129, 30 | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 2   |         |
|         |              |                          |     |         | C131     | ECEA1HN010S  | E.CAPACITOR 50V 1U       | 1   |         |
|         |              |                          |     |         | C132     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |         | C133     | ECEA1AU470   | E.CAPACITOR 10V 47U      | 1   |         |
|         |              |                          |     |         | C134     | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
|         |              |                          |     |         | C135     | ECUM1H122JN  | C.CAPACITOR CH 50V 1200P | 1   |         |
|         |              |                          |     |         | C137     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
|         |              |                          |     |         | C138     | ECUM1H821JCN | C.CAPACITOR CH 50V 820P  | 1   |         |
|         |              | CAPACITORS               |     |         | C139-41  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         |
| C1      | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C142     | ECEA1AU470   | E.CAPACITOR 10V 47U      | 1   |         |
| C2      | ECEA1CU221   | E.CAPACITOR 16V 220U     | 1   |         | C143, 44 | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 2   |         |
| C3      | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C145     | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C4      | ECEN0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         | C146     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C5      | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C147-49  | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 3   |         |
| C6      | ECEA1CU221   | E.CAPACITOR 16V 220U     | 1   |         | C150     | ECEA1HN010S  | E.CAPACITOR 50V 1U       | 1   |         |
| C7-C9   | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         | C151     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C10     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C152     | ECEA1AU470   | E.CAPACITOR 10V 47U      | 1   |         |
| C11     | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C154     | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
| C12, 13 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C155     | ECUM1H122JN  | C.CAPACITOR CH 50V 1200P | 1   |         |
| C14     | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C157     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
| C15     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         | C158-60  | ECUM1H821JCN | C.CAPACITOR CH 50V 820P  | 3   |         |
| C16     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C161, 62 | ECEA1AN470S  | E.CAPACITOR 10V 47U      | 2   |         |
| C17     | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         | C163     | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
| C18     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C164     | ECUM1H104JF  | P.CAPACITOR 50V 0.1U     | 1   |         |
| C19, 20 | ECEA1CU221   | E.CAPACITOR 16V 220U     | 2   |         | C165     | ECEA1AN470S  | E.CAPACITOR 10V 47U      | 1   |         |
| C21, 22 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C200     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C23     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         | C201     | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C24, 25 | ECUM1H151JCN | C.CAPACITOR CH 50V 150P  | 2   |         | C202, 03 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C26     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C204     | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C27     | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         | C205     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C28     | ECUM1H163JF  | P.CAPACITOR 50V 0.016U   | 1   |         | C206     | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |         |
| C29     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C207     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
| C30     | ECEA1EN475   | E.CAPACITOR 25V 4.7U     | 1   |         | C209     | ECUM1H20JCN  | C.CAPACITOR CH 50V 22P   | 1   |         |
| C31     | ECEA1HN2R2S  | E.CAPACITOR 50V 2.2U     | 1   |         | C210     | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C32     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C211     | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |         |
| C33     | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         | C212     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C35     | ECEA0JU221   | E.CAPACITOR 6.3V 220U    | 1   |         | C213     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C36     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C214     | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
| C37     | ECEA0JU221   | E.CAPACITOR 6.3V 220U    | 1   |         | C215     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C38-46  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 9   |         | C219     | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
| C49, 50 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C220     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C51     | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C223     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C52     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C224     | ECUM1H030DCN | C.CAPACITOR CH 50V 3P    | 1   |         |
| C53     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C226     | ECEA1HN47S   | E.CAPACITOR 50V 0.47U    | 1   |         |
| C54     | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C227, 28 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C56     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C229     | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C57     | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |         | C230, 31 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C58     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C232     | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C59     | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         | C233     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C60     | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 1   |         | C235     | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 1   |         |
| C61     | ECEA0JU221   | E.CAPACITOR 6.3V 220U    | 1   |         | C236     | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
| C62     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C238     | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C63     | ECEA0JU221   | E.CAPACITOR 6.3V 220U    | 1   |         | C239     | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C64-73  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 10  |         | C240     | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C76     | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         | C241     | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C77     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C242     | ECEA1HN47S   | E.CAPACITOR 50V 0.47U    | 1   |         |
| C78     | ECUM1H223JF  | P.CAPACITOR 50V 0.022U   | 1   |         | C243     | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |         |
| C79     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C245     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C80     | ECEA1HN100S  | E.CAPACITOR 50V 10U      | 1   |         | C247     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C81     | ECEA1HN2R2S  | E.CAPACITOR 50V 2.2U     | 1   |         | C248     | ECEA0JU470   | E.CAPACITOR 6.3V 47U     | 1   |         |
| C82, 83 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         | C249     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C84     | ECEA0JU470   | E.CAPACITOR 6.3V 47U     | 1   |         | C257, 58 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C85, 86 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         | C260     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C87     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C261     | ECUM1H030DCN | C.CAPACITOR CH 50V 3P    | 1   |         |
| C88     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C263     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C113    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C264     | ECEA1HN47S   | E.CAPACITOR 50V 0.47U    | 1   |         |
| C114-17 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 4   |         | C266, 67 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C120    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C268     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C121    | ECEA1AU470   | E.CAPACITOR 10V 47U      | 1   |         | C269     | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C122    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C270, 71 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C123    | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |         | C272     | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C124    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         | C273     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C125    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |          |              |                          |     |         |

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| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|---------|----------|--------------|--------------------------|-----|---------|
| C275    | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 1   |         | C576,77  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C276    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         | C578     | ECEA0J101    | E.CAPACITOR 6.3V 100U    | 1   |         |
| C278    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         | C579     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C279    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         | C580, 81 | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 2   |         |
| C280    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         | C582     | ECEA0J101    | E.CAPACITOR 6.3V 100U    | 1   |         |
| C281    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         | C583     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C282    | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |         | C584     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C284    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C585     | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
| C291    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C586     | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C292    | ECEA1CU221   | E.CAPACITOR 16V 220U     | 1   |         | C587,88  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C293    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C589     | ECUM1H271JCN | C.CAPACITOR CH 50V 270P  | 1   |         |
| C294    | ECEA0J101    | E.CAPACITOR 6.3V 100U    | 1   |         | C590     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C297,98 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         | C591     | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
| C299    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C592-97  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 6   |         |
| C300    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C598     | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |         |
| C301    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C599,00  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C302    | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 1   |         | C601     | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |         |
| C303    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         | C602     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C304    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         | C603     | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C305,06 | ECEA1HNR47S  | E.CAPACITOR 50V 0.47U    | 2   |         | C604     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C307,08 | ECQM1H104JF  | P.CAPACITOR 50V 0.1U     | 2   |         | C605     | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C311    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         | C606     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C312,13 | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 2   |         | C607     | ECEA0J101    | E.CAPACITOR 6.3V 100U    | 1   |         |
| C314    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         | C608     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C501,02 | ECEA1CU101   | E.CAPACITOR 16V 100U     | 2   |         | C609     | ECEA0J101    | E.CAPACITOR 6.3V 100U    | 1   |         |
| C503    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         | C610     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C504    | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |         | C611     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C505    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C612     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C506    | ECEA1HNR47S  | E.CAPACITOR 50V 0.47U    | 1   |         | C615-18  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 4   |         |
| C507,08 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C619     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C510    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C620     | ECQM1H104JF  | P.CAPACITOR 50V 0.1U     | 1   |         |
| C517    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C621     | ECEA1CU100   | E.CAPACITOR 16V 10U      | 1   |         |
| C518    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         | C622     | ECQM1H104JF  | P.CAPACITOR 50V 0.1U     | 1   |         |
| C520    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C623     | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
| C521    | ECEA0J101    | E.CAPACITOR 6.3V 47U     | 1   |         | C624     | ECQM1H104JF  | P.CAPACITOR 50V 0.1U     | 1   |         |
| C522    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         | C625     | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
| C523    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         | C626     | ECQM1H104JF  | P.CAPACITOR 50V 0.1U     | 1   |         |
| C524    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C627,28  | ECUM1H122JCN | C.CAPACITOR CH 50V 1200P | 2   |         |
| C525    | ECEA0J101    | E.CAPACITOR 6.3V 100U    | 1   |         | C629     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C526    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C630,31  | ECUM1H122JCN | C.CAPACITOR CH 50V 1200P | 2   |         |
| C527,28 | ECEA1CU101   | E.CAPACITOR 16V 100U     | 2   |         | C632     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C531    | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |         | C634,35  | ECQF1H270JC  | C.CAPACITOR 50V 27P      | 2   |         |
| C532    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C839     | ECUM1H222KBN | C.CAPACITOR CH 50V 2200P | 1   |         |
| C533    | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |         | C840     | ECUM1H662KBN | C.CAPACITOR CH 50V 6600P | 1   |         |
| C534,35 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C1001    | ECEA1HU010   | E.CAPACITOR 50V 1U       | 1   |         |
| C536,37 | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 2   |         | C1003,04 | ECEA1CN100S  | E.CAPACITOR 16V 10U      | 2   |         |
| C538,39 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C1005    | ECQF1H221KB  | C.CAPACITOR 50V 220P     | 1   |         |
| C540    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C1006    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
| C541    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |          |              |                          |     |         |
| C542    | ECUM1H271JCN | C.CAPACITOR CH 50V 270P  | 1   |         |          |              |                          |     |         |
| C543    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         | D1       | 1S251        | DIODE                    | 1   |         |
| C544    | ECUM1H070DCN | C.CAPACITOR CH 50V 7P    | 1   |         | D2       | MA153        | DIODE                    | 1   |         |
| C545    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         | D4       | MA153        | DIODE                    | 1   |         |
| C546    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         | D6       | MA1514K      | DIODE                    | 1   |         |
| C547    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         | D11      | MA1514K      | DIODE                    | 1   |         |
| C550    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | E200,01  | RD4.7EB2     | ZENER 4.7V               | 2   |         |
| C551    | ECUM1H471JCN | C.CAPACITOR CH 50V 470P  | 1   |         | E203,04  | MA151K       | DIODE                    | 2   |         |
| C552    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         | E210     | MA151K       | DIODE                    | 1   |         |
| C553    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | E501     | RD3.6EB      | ZENER 3.6V               | 1   |         |
| C554    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | E508     | RD4.7EB2     | ZENER 4.7V               | 1   |         |
| C555    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | E509     | MA151K       | DIODE                    | 1   |         |
| C559    | ECEA0J101    | E.CAPACITOR 6.3V 47U     | 1   |         | E510,11  | MA339R       | DIODE                    | 2   |         |
| C560    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | E514     | MA151K       | DIODE                    | 1   |         |
| C561    | ECEA0JN330S  | E.CAPACITOR 6.3V 33U     | 1   |         |          |              |                          |     |         |
| C562    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |          |              |                          |     |         |
| C563    | ECUM1H271JCN | C.CAPACITOR CH 50V 270P  | 1   |         |          |              |                          |     |         |
| C564    | ECUM1H151JCN | C.CAPACITOR CH 50V 150P  | 1   |         |          |              |                          |     |         |
| C565    | ECUM1H471JCN | C.CAPACITOR CH 50V 470P  | 1   |         | FL1      | VLF0650      | FILTER                   | 1   |         |
| C566    | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         | FL3      | VLF0754      | FILTER                   | 1   |         |
| C567-69 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         | FL200    | VLF0712      | FILTER                   | 1   |         |
| C570    | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         | FL201,02 | VLF0753      | FILTER                   | 2   |         |
| C571    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |          |              |                          |     |         |
| C572    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |          |              |                          |     |         |
| C573    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |          |              |                          |     |         |
| C574,75 | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 2   |         | IC1      | AN78N09      | IC                       | 1   |         |

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| Ref.No.   | Part No.     | Part Name & Description | Pcs   | Remarks | Ref.No.  | Part No.     | Part Name & Description | Pcs     | Remarks |
|-----------|--------------|-------------------------|-------|---------|----------|--------------|-------------------------|---------|---------|
| IC2       | AN79N09      | IC                      | 1     |         | L506     | VLQEL05S680J | COIL                    | 680H    | 1       |
| IC3       | MC74HC4053F  | IC                      | 1     |         | L507, 08 | VLQEL05F101K | COIL                    | 100UH   | 2       |
| IC4-C6    | TL082CPS     | IC                      | 3     |         | L511     | VLQEL05S270J | COIL                    | 270H    | 1       |
| IC7       | RA19211BNT   | IC                      | 1     |         | L512     | VLQEL05S6R8J | COIL                    | 6.8UH   | 1       |
| IC8       | MC74HC574F   | IC                      | 1 (R) |         | L513     | VLQEL05S5R6J | COIL                    | 5.6UH   | 1       |
| IC9       | TL082CPS     | IC                      | 1     |         | L514     | VLQEL05S180J | COIL                    | 180H    | 1       |
| IC10-12   | TL082CPS     | IC                      | 3     |         | L515     | VLQEL05S560J | COIL                    | 560H    | 1       |
| IC13      | NA19211BNT   | IC                      | 1     |         | L518, 19 | VLQEL05F101K | COIL                    | 100UH   | 2       |
| IC14      | MC74HC574F   | IC                      | 1 (R) |         | L520, 21 | VLQEL05S470J | COIL                    | 47UH    | 2       |
| IC15      | AN78N09      | IC                      | 1     |         | L522, 23 | VLP0017      | COIL                    |         | 2       |
| IC16      | AN79N09      | IC                      | 1     |         |          |              |                         |         |         |
| IC17      | AN79L05      | IC                      | 1     |         |          |              |                         |         |         |
| IC18, 19  | AN78N05      | IC                      | 2     |         |          |              |                         |         |         |
| IC26, 27  | AN91A12S     | IC                      | 2     |         | Q1       | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC28      | MC74HC08AF   | IC                      | 1     |         | Q2       | 2SB709       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC29      | SN74LS123NS  | IC                      | 1     |         | Q3       | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC30      | NE521D       | IC                      | 1     |         | Q4, Q5   | 2SB709       | TRANSISTOR CHIP         | 2 (Q,R) |         |
| IC32      | AN78N05      | IC                      | 1     |         | Q6, Q7   | 2SC2404      | TRANSISTOR CHIP         | 2 (C,D) |         |
| IC33      | AN79N05      | IC                      | 1     |         | Q8       | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C) |         |
| IC200     | AN78N09      | IC                      | 1     |         | Q9       | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C) |         |
| IC201     | AN79N09      | IC                      | 1     |         | Q10      | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C) |         |
| IC202     | AN78N09      | IC                      | 1     |         | Q11      | 2SK374       | TRANSISTOR              | 1       |         |
| IC203     | AN79N09      | IC                      | 1     |         | Q12      | 2SB709       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC204     | AN79N09      | IC                      | 1     |         | Q13      | 2SB601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC205     | AN79N09      | IC                      | 1     |         | Q14      | 2SB709       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC206     | TL082CPS     | IC                      | 1     |         | Q15      | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC207     | CA3054       | IC                      | 1     |         | Q16      | 2SB709       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC208-10  | TL082CPS     | IC                      | 3     |         | Q17, 18  | 2SC2404      | TRANSISTOR CHIP         | 2 (C,D) |         |
| IC211     | AN78L05      | IC                      | 1     |         | Q19      | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C) |         |
| IC215     | TL082CPS     | IC                      | 1     |         | Q20      | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C) |         |
| IC216     | AN79L09      | IC                      | 1     |         | Q21      | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C) |         |
| IC501     | TL082CPS     | IC                      | 1     |         | Q22      | 2SK374       | TRANSISTOR              | 1       |         |
| IC502, 03 | CA3054       | IC                      | 2     |         | Q23      | 2SB709       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC504, 06 | NJM1496M     | IC                      | 2     |         | Q24      | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC506     | 10116D       | IC                      | 1     |         | Q25      | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C) |         |
| IC507     | MC74HC04AF   | IC                      | 1     |         | Q26-28   | 2SD601       | TRANSISTOR CHIP         | 3 (Q,R) |         |
| IC508     | NJM1496M     | IC                      | 1     |         | Q200     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC509     | MC74HC08AF   | IC                      | 1     |         | Q201, 02 | 2SB709       | TRANSISTOR CHIP         | 2 (Q,R) |         |
| IC510     | MC74HC74AF   | IC                      | 1     |         | Q203, 04 | 2SD601       | TRANSISTOR CHIP         | 2 (Q,R) |         |
| IC511     | SN74LS123NS  | IC                      | 1     |         | Q205, 06 | 2SC2404      | TRANSISTOR CHIP         | 2 (C,D) |         |
| IC512     | 10116D       | IC                      | 1     |         | Q207     | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C) |         |
| IC517     | AN78N09      | IC                      | 1     |         | Q208     | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C) |         |
| IC518     | AN79N09      | IC                      | 1     |         | Q209     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC519     | AN78N05      | IC                      | 1     |         | Q210     | 2SK198       | TRANSISTOR              | 1 (Q,R) |         |
| IC520     | AN79N05      | IC                      | 1     |         | Q211-15  | 2SD601       | TRANSISTOR CHIP         | 5 (Q,R) |         |
| IC521     | AN78N09      | IC                      | 1     |         | Q219     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC522     | AN79N09      | IC                      | 1     |         | Q220, 21 | 2SB709       | TRANSISTOR CHIP         | 2 (Q,R) |         |
| IC523     | MC74HC04AF   | IC                      | 1     |         | Q222     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC822     | SN74LS221NS  | IC                      | 1     |         | Q223, 24 | 2SC2404      | TRANSISTOR CHIP         | 2 (C,D) |         |
| IC823     | MC74HC00AF   | IC                      | 1     |         | Q225     | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C) |         |
|           |              |                         |       |         | Q226     | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C) |         |
|           |              |                         |       |         | Q227     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
|           |              |                         |       |         | Q229     | 2SB709       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| L1-L3     | VLP0017      | COIL                    | 3     |         | Q230     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| L5        | VLQEL05S821J | COIL                    | 820UH | 1       | Q232, 33 | 2SB709       | TRANSISTOR CHIP         | 2 (Q,R) |         |
| L6-L9     | VLP0017      | COIL                    |       | 4       | Q234     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| L10       | VLQEL05S221J | COIL                    | 220UH | 1       | Q235, 36 | 2SC2404      | TRANSISTOR CHIP         | 2 (C,D) |         |
| L11       | VLQEL05S560J | COIL                    | 56UH  | 1       | Q237     | 2SK198       | TRANSISTOR              | 1 (Q,R) |         |
| L12       | VLQEL05S3R9J | COIL                    | 3.9UH | 1       | Q238, 39 | 2SB709       | TRANSISTOR CHIP         | 2 (Q,R) |         |
| L13       | VLQEL05S101J | COIL                    | 100UH | 1       | Q240     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| L15       | VLQEL05S6R8J | COIL                    | 6.8UH | 1       | Q241, 42 | 2SC2404      | TRANSISTOR CHIP         | 2 (C,D) |         |
| L16       | VLQEL05S560J | COIL                    | 56UH  | 1       | Q243     | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C) |         |
| L17       | VLQEL05S3R9J | COIL                    | 3.9UH | 1       | Q244     | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C) |         |
| L18       | VLQEL05S101J | COIL                    | 100UH | 1       | Q245     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| L20       | VLQEL05S6R8J | COIL                    | 6.8UH | 1       | Q246     | 2SK198       | TRANSISTOR              | 1 (Q,R) |         |
| L200      | VLQEL05S6R8J | COIL                    | 6.8UH | 1       | Q247     | 2SB709       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| L201      | ERDS2T0      | C.RESISTOR              | 1/4W  | 0       | Q248, 49 | 2SD601       | TRANSISTOR CHIP         | 2 (Q,R) |         |
| L203      | ERDS2T0      | C.RESISTOR              | 1/4W  | 0       | Q250, 51 | 2SB709       | TRANSISTOR CHIP         | 2 (Q,R) |         |
| L205, 06  | VLP0017      | COIL                    |       | 2       | Q252     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| L208, 09  | VLQEL05S6R8J | COIL                    | 6.8UH | 2       | Q253, 54 | 2SC2404      | TRANSISTOR CHIP         | 2 (C,D) |         |
| L210      | VLQEL05S470J | COIL                    | 47UH  | 1       | Q255     | 2SK198       | TRANSISTOR              | 1 (Q,R) |         |
| L211, 12  | VLQEL05S6R8J | COIL                    | 6.8UH | 2       | Q256     | 2SC2404      | TRANSISTOR CHIP         | 1 (C,D) |         |
| L501, 02  | VLQEL05F101K | COIL                    | 100UH | 2       | Q257     | 2SB709       | TRANSISTOR CHIP         | 1 (Q,R) |         |
| L503      | VLQEL05S6R8J | COIL                    | 6.8UH | 1       | Q258     | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C) |         |
| L505      | VLQEL05F101K | COIL                    | 100UH | 1       | Q259-63  | 2SC2295      | TRANSISTOR CHIP         | 5 (B,C) |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| Q265    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   | R45     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| Q266,67 | 2SD601      | TRANSISTOR CHIP          | 2   | (Q,R)   | R46     | ERJ6GEYG224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| Q284    | 2SK198      | TRANSISTOR               | 1   | (Q,R)   | R47     | ERJ6GEYG472 | M.RESISTOR CH1/10W 4.7K  | 1   |         |
| Q285    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   | R48     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| Q286,87 | 2SD601      | TRANSISTOR CHIP          | 2   | (Q,R)   | R49     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| Q288,89 | 2SB709      | TRANSISTOR CHIP          | 2   | (Q,R)   | R50     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| Q290    | 2SD601      | TRANSISTOR CHIP          | 1   | (Q,R)   | R51     | VRE0034E273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| Q291,92 | 2SB709      | TRANSISTOR CHIP          | 2   | (Q,R)   | R52     | VRE0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         |
| Q501,02 | 2SC2295     | TRANSISTOR CHIP          | 2   | (B,C)   | R53     | VRE0034E153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| Q503,04 | 2SD601      | TRANSISTOR CHIP          | 2   | (Q,R)   | R54     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         |
| Q505    | 2SK198      | TRANSISTOR               | 1   | (Q,R)   | R55     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q506    | 2SB709      | TRANSISTOR CHIP          | 1   | (Q,R)   | R56     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q507-09 | 2SD601      | TRANSISTOR CHIP          | 3   | (Q,R)   | R57     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q514-16 | 2SD601      | TRANSISTOR CHIP          | 3   | (Q,R)   | R58,59  | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| Q518    | 2SD601      | TRANSISTOR CHIP          | 1   | (Q,R)   | R60,61  | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| Q519    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   | R62,63  | VRE0034E561 | M.RESISTOR CH 1/10W 560  | 2   |         |
| Q520    | 2SD601      | TRANSISTOR CHIP          | 1   | (Q,R)   | R64     | ERJ6GEYG150 | M.RESISTOR CH1/10W 15    | 1   |         |
| Q521,22 | 2SC2295     | TRANSISTOR CHIP          | 2   | (B,C)   | R65     | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 1   |         |
| Q523    | 2SD601      | TRANSISTOR CHIP          | 1   | (Q,R)   | R66     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         |
| Q524,25 | 2SB709      | TRANSISTOR CHIP          | 2   | (Q,R)   | R67     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q526,27 | 2SC2295     | TRANSISTOR CHIP          | 2   | (B,C)   | R68     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q528    | 2SD601      | TRANSISTOR CHIP          | 1   | (Q,R)   | R69     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| Q532    | 2SB709      | TRANSISTOR CHIP          | 1   | (Q,R)   | R70     | ERJ6GEYG661 | M.RESISTOR CH 1/10W 680  | 1   |         |
| Q533-37 | 2SD601      | TRANSISTOR CHIP          | 5   | (Q,R)   | R71     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q538    | 2SB709      | TRANSISTOR CHIP          | 1   | (Q,R)   | R72     | ERJ6GEYG472 | M.RESISTOR CH1/10W 4.7K  | 1   |         |
| Q539    | 2SD601      | TRANSISTOR CHIP          | 1   | (Q,R)   | R73     | ERJ6GEYG163 | M.RESISTOR CH 1/10W 16K  | 1   |         |
| Q540    | 2SB709      | TRANSISTOR CHIP          | 1   | (Q,R)   | R74     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q541    | 2SD601      | TRANSISTOR CHIP          | 1   | (Q,R)   | R75     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q542    | 2SB709      | TRANSISTOR CHIP          | 1   | (Q,R)   | R76     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q543    | 2SD601      | TRANSISTOR CHIP          | 1   | (Q,R)   | R77     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q544    | 2SB709      | TRANSISTOR CHIP          | 1   | (Q,R)   | R78     | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| Q545-49 | 2SD601      | TRANSISTOR CHIP          | 4   | (Q,R)   | R79     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| Q551,52 | 2SD601      | TRANSISTOR CHIP          | 2   | (Q,R)   | R80     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
|         |             |                          |     |         | R81     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
|         |             |                          |     |         | R82     | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|         |             |                          |     |         | R83     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
|         |             |                          |     |         | R84     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         |
|         |             | RESISTORS                |     |         | R85     | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R1      | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R86,87  | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R2,R3   | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 2   |         | R88     | ERJ6GEYG823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R4,R5   | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         | R89     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R6,R7   | VRE0034E561 | M.RESISTOR CH 1/10W 560  | 2   |         | R90     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R8      | ERJ6GEYG150 | M.RESISTOR CH1/10W 15    | 1   |         | R91     | ERJ6GEYG563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R9      | ERJ6GEYG473 | M.RESISTOR CH1/10W 47K   | 1   |         | R92     | ERJ6GEYG333 | M.RESISTOR CH1/10W 33K   | 1   |         |
| R10     | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 1   |         | R93     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R11     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         | R94     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R12     | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R95     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R13     | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 1   |         | R96     | ERJ6GEYG472 | M.RESISTOR CH1/10W 4.7K  | 1   |         |
| R14     | ERJ6GEYG680 | M.RESISTOR CH 1/10W 68   | 1   |         | R97     | ERJ6GEYG224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R15     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         | R98     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R16     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R99     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R17     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R100    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R18     | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         | R101    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R19     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         | R102    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R20     | ERJ6GEYG472 | M.RESISTOR CH1/10W 4.7K  | 1   |         | R103    | VRE0034E223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R21     | ERJ6GEYG183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R104    | VRE0034E153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R22     | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         | R105    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R23,24  | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R109,10 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 2   |         |
| R25,26  | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 2   |         | R133    | ERJ6GEYG224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R27     | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R135,36 | ERJ6GEYG822 | M.RESISTOR CH1/10W 8.2K  | 2   |         |
| R28     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         | R137    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R29     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R138    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R30     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R139    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R31     | VRE0034E333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R140    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R32     | VRE0034E103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R141    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R33     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R142    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R34     | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R143,44 | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R35     | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R145    | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R36,37  | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | R146    | ERJ6GEYG105 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R38     | ERJ6GEYG823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R148,49 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R39     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R150    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R40     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R151    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R41     | ERJ6GEYG563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R152    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R42     | ERJ6GEYG333 | M.RESISTOR CH1/10W 33K   | 1   |         | R153    | ERJ6GEYG333 | M.RESISTOR CH1/10W 33K   | 1   |         |
| R43     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R154    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R44     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |         |             |                          |     |         |

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| Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|
| R155     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R156     | ERJ6GEYG472 | M.RESISTOR CH1/10W 4.7K  | 1   |         |
| R157     | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R158     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R159     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R160,61  | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R162,63  | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R166,67  | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R168     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R169,70  | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 2   |         |
| R171     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R172     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R173     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R174     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R200     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R201     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R202,03  | VRE0034E331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R204     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R205     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R206,07  | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R209     | VRE0034E621 | M.RESISTOR CH 1/10W 620  | 1   |         |
| R210,11  | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 2   |         |
| R212     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R213     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R214     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R215     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R216     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R217     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R218     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R219     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R220     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R221     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R222,23  | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R224     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R225     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R226     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R227,28  | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R229     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R230     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R231     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R233     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R234     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R235     | ERJ6GEYG561 | M.RESISTOR CH1/10W 560   | 1   |         |
| R236     | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 1   |         |
| R237     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R238     | ERJ6GEYG473 | M.RESISTOR CH1/10W 47K   | 1   |         |
| R240     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R241     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R242     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R243     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R244     | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R245     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R246     | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R257     | VRE0034E331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R258-60  | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 3   |         |
| R262,63  | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R264     | VRE0034E621 | M.RESISTOR CH 1/10W 620  | 1   |         |
| R265,66  | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R268     | VRE0034E471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R269     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R270     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R271     | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R272     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R273     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R274     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R275     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R276     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R277     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R278     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R279     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R280     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R281     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R282     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R288     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R290     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |

| Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|
| R291     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R292     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R293     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R294     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R298     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R299     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R300,01  | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R302     | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R303     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R306     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R307     | ERJ6GEYG621 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R308     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R309     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R310     | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R311     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R312     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R313     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R314     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R316-18  | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 3   |         |
| R320,21  | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R322     | VRE0034E621 | M.RESISTOR CH 1/10W 620  | 1   |         |
| R323,34  | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R326     | VRE0034E471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R327     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R328     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R329     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R330     | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R331     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R332     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R333     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R334     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R335     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R336     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R337     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R338,39  | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R340     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R342     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R346     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R347     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R348     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R349     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R350     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R351     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R355     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R356     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R357,58  | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R359     | VRE0034E271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R360     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R364     | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R365     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R366     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R367     | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R368     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R369     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R370     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R371     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R372     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R373     | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R374,75  | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R376     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R396     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R397     | ERJ6GEYG472 | M.RESISTOR CH1/10W 4.7K  | 1   |         |
| R398     | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R399     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R400     | ERJ6GEYG472 | M.RESISTOR CH1/10W 4.7K  | 1   |         |
| R401,02  | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R404     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R405,06  | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 2   |         |
| R409     | VRE0034E331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R410     | ERJ6GEYG390 | M.RESISTOR CH 1/10W 39   | 1   |         |
| R411     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R412     | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R413-16  | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 4   |         |
| R417     | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R418     | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |

Refer to the P.C. BOARDS LIST, page 6-1-i, before using this page.

| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|
| R421     | VR00034E221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R422     | VR00034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R423     | ERJ6GEY0R00 | M.RESISTOR CH 1/10W      | 1   |         |
| R424     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R425, 26 | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R427     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R428     | VR00034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R429     | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R430     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R431     | VR00034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R432, 33 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R434     | ERJ6GEYG123 | M.RESISTOR CH1/10W 12K   | 1   |         |
| R435     | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R436     | ERJ6GEYG822 | M.RESISTOR CH1/10W 8.2K  | 1   |         |
| R437     | ERJ6GEYG123 | M.RESISTOR CH1/10W 12K   | 1   |         |
| R438     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R439     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R440     | VR00034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R441     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R442     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R443     | ERJ6GEY0R00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R501     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R502     | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R503, 04 | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R505, 05 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R507     | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R508     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R509     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R510     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R511     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R512     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R513     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R514     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R515     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R516     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R517     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R518     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R519     | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R520     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R521     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R522     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R523     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R524     | ERJ6GEYG561 | M.RESISTOR CH1/10W 560   | 1   |         |
| R525     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R526     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R527     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R528     | VR00034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R529     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R530     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R542     | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R543     | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R544     | ERJ6GEYG561 | M.RESISTOR CH1/10W 560   | 1   |         |
| R545     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R546     | ERJ6GEYG561 | M.RESISTOR CH1/10W 560   | 1   |         |
| R547     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R549     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R551     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R552     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R553     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R554     | ERJ6GEYG561 | M.RESISTOR CH1/10W 560   | 1   |         |
| R555     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R556     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R557     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R558     | VR00034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R559     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R560     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R564     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R565     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R566     | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R567     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R568     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R569     | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R570     | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R571     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R572     | ERJ6GEYG472 | M.RESISTOR CH1/10W 4.7K  | 1   |         |

| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|
| R573, 74 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R576     | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R577     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R578     | ERJ6GEYG472 | M.RESISTOR CH1/10W 4.7K  | 1   |         |
| R579, 80 | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 2   |         |
| R581, 82 | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R583     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R584     | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R585     | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R586     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R587     | ERJ6GEYG472 | M.RESISTOR CH1/10W 4.7K  | 1   |         |
| R588     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R590     | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R591     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R592     | ERJ6GEYG472 | M.RESISTOR CH1/10W 4.7K  | 1   |         |
| R593, 94 | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 2   |         |
| R595, 96 | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R597     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R598     | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R599     | ERJ6GEYG822 | M.RESISTOR CH1/10W 8.2K  | 1   |         |
| R600     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R601, 02 | VR00034E301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R603     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R604     | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R605     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R606     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R607     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R608     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R609, 10 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R611     | ERJ6GEY0R00 | M.RESISTOR CH 1/10W      | 1   |         |
| R612     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R613     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R614     | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R615     | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R616     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R617     | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R618     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R619     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R620     | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R621     | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R622     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R623     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R630     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R632     | ERJ6GEY0R00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R634     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R635     | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R636     | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R637     | ERJ6GEYG183 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R642     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R643     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R644     | ERJ6GEYG183 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R645     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R646     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R647     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R648, 49 | ERJ6GEYG473 | M.RESISTOR CH1/10W 47K   | 2   |         |
| R650     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R651     | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R652     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R653     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R654, 55 | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R656     | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R657     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R658     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R659     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R660     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R661     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R662     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R663     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R664     | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R665     | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R666     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R667     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R668     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R669     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R670     | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |

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| Ref.No. | Part No.     | Part Name & Description   | Pcs         | Remarks |
|---------|--------------|---------------------------|-------------|---------|
|         | VEP8063C     | P.C. BOARD W/COMPONENT    |             |         |
|         |              | M2 ENCODER                |             |         |
|         | VEP80632A    | P.C. BOARD W/COMPONENT    | ON VEP8063C |         |
|         |              | M2S SC SUB                |             |         |
|         |              |                           |             |         |
|         |              |                           |             |         |
|         |              |                           |             |         |
|         |              | CAPACITORS                |             |         |
| C1      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C2      | ECBA1CU221   | E. CAPACITOR 16V 220U     | 1           |         |
| C3      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C4      | ECBA0JU101   | E. CAPACITOR 6.3V 100U    | 1           |         |
| C5      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C6      | ECBA1CU221   | E. CAPACITOR 16V 220U     | 1           |         |
| C7-C9   | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3           |         |
| C10     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C11     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1           |         |
| C12,13  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2           |         |
| C14     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1           |         |
| C15     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1           |         |
| C16     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C17     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1           |         |
| C18     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C19,20  | ECBA1CU221   | E. CAPACITOR 16V 220U     | 2           |         |
| C21,22  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2           |         |
| C23     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1           |         |
| C24,25  | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 2           |         |
| C26     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1           |         |
| C27     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1           |         |
| C28     | ECQM1H183JF  | P. CAPACITOR 50V 0.018U   | 1           |         |
| C29     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C30     | ECBA1EN47S   | E. CAPACITOR 25V 4.7U     | 1           |         |
| C31     | ECBA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 1           |         |
| C32     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C33     | ECBA0JU101   | E. CAPACITOR 6.3V 100U    | 1           |         |
| C35     | ECBA0JU221   | E. CAPACITOR 6.3V 220U    | 1           |         |
| C36     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C37     | ECBA0JU221   | E. CAPACITOR 6.3V 220U    | 1           |         |
| C38-46  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 9           |         |
| C49,50  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2           |         |
| C51     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1           |         |
| C52     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1           |         |
| C53     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C54     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1           |         |
| C55     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1           |         |
| C56     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C57     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1           |         |
| C58     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C59     | ECBA0JU101   | E. CAPACITOR 6.3V 100U    | 1           |         |
| C60     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1           |         |
| C61     | ECBA0JU221   | E. CAPACITOR 6.3V 220U    | 1           |         |
| C62     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C63     | ECBA0JU221   | E. CAPACITOR 6.3V 220U    | 1           |         |
| C64-73  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 10          |         |
| C76     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1           |         |
| C77     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1           |         |
| C78     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1           |         |
| C79     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C80,81  | ECBA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 2           |         |
| C82,83  | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 2           |         |
| C84     | ECBA0JU470   | E. CAPACITOR 6.3V 47U     | 1           |         |
| C85,86  | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 2           |         |
| C87     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C88     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1           |         |
| C113    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1           |         |
| C114-17 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 4           |         |
| C120    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C121    | ECBA1AU470   | E. CAPACITOR 10V 47U      | 1           |         |
| C122    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1           |         |
| C123    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1           |         |
| C124    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1           |         |
| C125    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1           |         |

| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|---------|--------------|---------------------------|-----|---------|
| C126    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C127    | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
| C128    | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C129,30 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         |
| C131    | ECBA1HN010S  | E. CAPACITOR 50V 1U       | 1   |         |
| C132    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C133    | ECBA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C134    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C135    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C136    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C137    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C138    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C139-41 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C142    | ECBA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C143,44 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         |
| C145    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C146    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C147-49 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 3   |         |
| C150    | ECBA1HN010S  | E. CAPACITOR 50V 1U       | 1   |         |
| C151    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C152    | ECBA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C154    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C155    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C156    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C157    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C158    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C159,60 | ECUM1H821JCN | C. CAPACITOR CH 50V 820P  | 2   |         |
| C161,62 | ECBA1AN470S  | E. CAPACITOR 10V 47U      | 2   |         |
| C163    | ECBA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C164    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C165    | ECBA1AN470S  | E. CAPACITOR 10V 47U      | 1   |         |
| C200    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C201    | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C202,03 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C204    | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C205    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C206    | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |         |
| C207    | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C209    | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C210    | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C211    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C212    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C213    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C214    | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C215    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C219    | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C220    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C223    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C224    | ECUM1H030JCN | C. CAPACITOR CH 50V 3P    | 1   |         |
| C226    | ECBA1HNR47S  | E. CAPACITOR 50V 0.47U    | 1   |         |
| C227,28 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C229    | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C230,31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C232    | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C233    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C235    | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |         |
| C236    | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C238    | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C239    | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C240    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C241    | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C242    | ECBA1HNR47S  | E. CAPACITOR 50V 0.47U    | 1   |         |
| C243    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C244    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C245    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C247    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C248    | ECBA0JU470   | E. CAPACITOR 6.3V 47U     | 1   |         |
| C249    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C257,58 | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C260    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C261    | ECUM1H030JCN | C. CAPACITOR CH 50V 3P    | 1   |         |
| C263    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C264    | ECBA1HNR47S  | E. CAPACITOR 50V 0.47U    | 1   |         |
| C266,67 | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C268    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |

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| Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks | Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|----------|--------------|---------------------------|-----|---------|
| C269     | ECBA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | C571     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C270, 71 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C572     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C272     | ECBA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | C573     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C273     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C574, 75 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 2   |         |
| C275     | ECUM1H20JCN  | C. CAPACITOR CH 50V 12P   | 1   |         | C576, 77 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C276     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         | C578     | ECBA0J0101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C278     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         | C579     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C279     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         | C580, 81 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 2   |         |
| C280     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         | C582     | ECBA0J0101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C281     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         | C583     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C282     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         | C584     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C283     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C585     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C284     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C586     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C291     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C587, 88 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C292     | ECBA1C0221   | E. CAPACITOR 16V 220U     | 1   |         | C589     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
| C293     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C590     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C294     | ECBA0J0101   | E. CAPACITOR 6.3V 100U    | 1   |         | C591     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C297, 98 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | C592-97  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 6   |         |
| C299     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C598     | ECBA1C0101   | E. CAPACITOR 16V 100U     | 1   |         |
| C300     | ECBA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | C599, 00 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C301     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C601     | ECBA1C0101   | E. CAPACITOR 16V 100U     | 1   |         |
| C303     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         | C602     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C304     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | C603     | ECBA1A0101   | E. CAPACITOR 10V 100U     | 1   |         |
| C305, 06 | ECBA1HNR47S  | E. CAPACITOR 50V 0.47U    | 2   |         | C604     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C307, 08 | ECUM1H104JF  | P. CAPACITOR 50V 0.1U     | 2   |         | C605     | ECBA1A0101   | E. CAPACITOR 10V 100U     | 1   |         |
| C311     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         | C606     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C312, 13 | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 2   |         | C607     | ECBA0J0101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C314     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         | C608     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C501, 02 | ECBA1C0101   | E. CAPACITOR 16V 100U     | 2   |         | C609     | ECBA0J0101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C503     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | C610     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C504     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         | C611     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C505     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C612     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C506     | ECBA1HNR47S  | E. CAPACITOR 50V 0.47U    | 1   |         | C615-18  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 4   |         |
| C507, 08 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C619     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C510     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C620     | ECUM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C517     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C621     | ECBA1C0100   | E. CAPACITOR 16V 10U      | 1   |         |
| C518     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | C622     | ECUM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C519, 20 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C623     | ECBA1C0470   | E. CAPACITOR 16V 47U      | 1   |         |
| C521     | ECBA0J0470   | E. CAPACITOR 6.3V 47U     | 1   |         | C624     | ECUM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C522     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         | C625     | ECBA1C0470   | E. CAPACITOR 16V 47U      | 1   |         |
| C523     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         | C626     | ECUM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C524     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C627, 28 | ECUM1H122JN  | C. CAPACITOR CH 50V 1200P | 2   |         |
| C525     | ECBA0J0101   | E. CAPACITOR 6.3V 100U    | 1   |         | C629     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C526     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C630, 31 | ECUM1H122JN  | C. CAPACITOR CH 50V 1200P | 2   |         |
| C527, 28 | ECBA1C0101   | E. CAPACITOR 16V 100U     | 2   |         | C632     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C531     | ECBA1C0101   | E. CAPACITOR 16V 100U     | 1   |         | C634     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C532     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C635     | ECOF1H120JC  | C. CAPACITOR 50V 12P      | 1   |         |
| C533     | ECBA1C0101   | E. CAPACITOR 16V 100U     | 1   |         | C800     | ECUM1H122JN  | C. CAPACITOR CH 50V 1200P | 1   |         |
| C534, 35 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C801     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C536, 37 | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 2   |         | C802     | ECUM1H122JF  | P. CAPACITOR 50V 1200P    | 1   |         |
| C538, 39 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C803     | ECUM1H684J2  | P. CAPACITOR 50V 0.68U    | 1   |         |
| C540     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C804-06  | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 3   |         |
| C541     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         | C806     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C542     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         | C809, 10 | ECUM1H122JN  | C. CAPACITOR CH 50V 1200P | 2   |         |
| C543     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |         | C812     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C546     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         | C813     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C547     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C814-22  | ECUM1H122JN  | C. CAPACITOR CH 50V 1200P | 9   |         |
| C548     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         | C823-25  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |         |
| C549     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | C827     | ECBA0J0101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C550     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C828, 29 | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 2   |         |
| C551     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P  | 1   |         | C830     | ECUM1H620JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C552     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         | C831     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C553     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C832     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C554     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C834     | ECBA1C0100S  | E. CAPACITOR 16V 10U      | 1   |         |
| C555     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C835     | ECBA1ENR47S  | E. CAPACITOR 25V 4.7U     | 1   |         |
| C559     | ECBA0J0470   | E. CAPACITOR 6.3V 47U     | 1   |         | C836     | ECBA0JN330S  | E. CAPACITOR 6.3V 33U     | 1   |         |
| C560     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C837     | ECBA1ENR47S  | E. CAPACITOR 25V 4.7U     | 1   |         |
| C561     | ECBA0JN330S  | E. CAPACITOR 6.3V 33U     | 1   |         | C838     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C562     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         | C841     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C563     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         | C842     | ECBA0J0101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C564     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         | C843, 44 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C565     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P  | 1   |         | C845     | ECBA0J0101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C566     | ECBA1C0470   | E. CAPACITOR 16V 47U      | 1   |         | C846, 47 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C567-69  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         | C848     | ECBA0J0101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C570     | ECBA1C0470   | E. CAPACITOR 16V 47U      | 1   |         | C849     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R52     | VRB0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         |
| R53     | VRB0034E153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R54     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         |
| R55     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R56     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R57     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R58,59  | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R60,61  | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R62,63  | VRB0034E561 | M.RESISTOR CH 1/10W 560  | 2   |         |
| R64     | ERJ6GEYG150 | M.RESISTOR CH 1/10W 15   | 1   |         |
| R65     | VRB0034E301 | M.RESISTOR CH 1/10W 300  | 1   |         |
| R66     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         |
| R67     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R68     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R69     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R70     | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R71     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R72     | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R73     | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R74     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R75     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R76     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R77     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R78     | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R79     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R80     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R81     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R82     | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R83     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R84     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         |
| R85     | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R86,87  | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R88     | ERJ6GEYG823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R89     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R90     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R91     | ERJ6GEYG563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R92     | ERJ6GEYG333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R93     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R94     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R95     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R96     | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R97     | ERJ6GEYG224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R98     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R99     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R100    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R101    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R102    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R103    | VRB0034E223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R104    | VRB0034E153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R105    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R109,10 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R133    | ERJ6GEYG224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R135,36 | ERJ6GEYG822 | M.RESISTOR CH 1/10W 8.2K | 2   |         |
| R137    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R138    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R139    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R140    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R141    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R142    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R143,44 | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R145    | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R146    | ERJ6GEYG105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R148,49 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R150    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R151    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R152    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R153    | ERJ6GEYG333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R154    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R155    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R156    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R157    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R158    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R159    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R160,61 | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R162,63 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R164,65 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R166,67 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R168    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R169,70 | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 2   |         |
| R171    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R172    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R173    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R174    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R176    | ERDS2TJ101  | C.RESISTOR 1/4W 100      | 1   |         |
| R200    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R201    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R202,03 | VRB0034E331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R204    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R205    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R206,07 | VRB0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R209    | VRB0034E621 | M.RESISTOR CH 1/10W 620  | 1   |         |
| R210,11 | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 2   |         |
| R212    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R213    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R214    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R215    | ERJ6GEYG401 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R216    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R217    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R218    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R219    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R220    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R221    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R222,23 | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R224    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R225    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R226    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R227    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R228    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R229    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R230    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R231    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R233    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R234    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R235    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R236    | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 1   |         |
| R237    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R238    | ERJ6GEYG473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R240    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R241    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R242    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R243    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R244    | VRB0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R245    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R246    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R257    | VRB0034E331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R258-60 | VRB0034E301 | M.RESISTOR CH 1/10W 300  | 3   |         |
| R262,63 | VRB0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R264    | VRB0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R265,66 | VRB0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R268    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R269    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R270    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R271    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R272    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R273    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R274    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R275    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R276    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R277    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R278    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R279    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R280    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R281    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R282    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R283    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R285,86 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R288    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R290    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R291    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R292    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| R293    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R421    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R294    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         | R422    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R298    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         | R423    | ERJ6GEY000  | M.RESISTOR CH 1/10W      | 1   |         |
| R299    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R424    | ERJ6GEYGL01 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R300,01 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R425,26 | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R302    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         | R427    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R303    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R428    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R306    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R429    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R307    | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         | R430    | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R308    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R431    | VRE0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R309    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R432,33 | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R310    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R434    | ERJ6GEYGL23 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R311    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R435    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R312    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R436    | ERJ6GEYG822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R313    | ERJ6GEYGL01 | M.RESISTOR CH 1/10W 100  | 1   |         | R437    | ERJ6GEYGL23 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R314    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R438    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R316-18 | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 3   |         | R439    | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R320,21 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R440    | VRE0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R322    | VRE0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         | R441    | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R323,24 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R442    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R326    | ERJ6GEY000  | M.RESISTOR CH 1/10W      | 1   |         | R443    | ERJ6GEY000  | M.RESISTOR CH 1/10W      | 1   |         |
| R327    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R501    | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R328    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R502    | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R329    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         | R503,04 | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R330    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         | R505,06 | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R331    | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 1   |         | R507    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R332    | ERJ6GEYGL01 | M.RESISTOR CH 1/10W 100  | 1   |         | R508    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R333    | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 1   |         | R509    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R334    | ERJ6GEYGL01 | M.RESISTOR CH 1/10W 100  | 1   |         | R510    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R335    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R511    | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R336    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         | R512    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R337    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R513    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R338,39 | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         | R514    | ERJ6GEYGL82 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R340    | ERJ6GEYGL01 | M.RESISTOR CH 1/10W 100  | 1   |         | R515    | ERJ6GEYGL01 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R341    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R516    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R342    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R517    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R344,45 | ERJ6GEYGL03 | M.RESISTOR CH 1/10W 10K  | 1   |         | R518    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R346    | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 1   |         | R519    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R347    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         | R520    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R348    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R521    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R349    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         | R522    | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R350    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R523    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R351    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         | R524    | ERJ6GEY0561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R355    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         | R525    | ERJ6GEYGL82 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R356    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R526    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R357,58 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R527    | ERJ6GEYGL82 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R359    | VRE0034E271 | M.RESISTOR CH 1/10W 270  | 1   |         | R528    | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R360    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R529    | ERJ6GEYGL52 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R364    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         | R530    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R365    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R542    | ERJ6GEY0821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R366    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R543    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R367    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R544    | ERJ6GEY0561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R368    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R545    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R369    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R546    | ERJ6GEY0561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R370    | ERJ6GEYGL01 | M.RESISTOR CH 1/10W 100  | 1   |         | R547    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R371    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R549    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R372    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R551    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R373    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R552    | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R374,75 | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 2   |         | R553    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R376    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R554    | ERJ6GEY0561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R396    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R555    | ERJ6GEYGL82 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R397    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R556    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R398    | ERJ6GEYGL53 | M.RESISTOR CH 1/10W 15K  | 1   |         | R557    | ERJ6GEYGL82 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R399    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         | R558    | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R400    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R559    | ERJ6GEYGL52 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R401,02 | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 2   |         | R560    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R404    | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 1   |         | R564    | ERJ6GEYGL02 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R405,06 | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 2   |         | R565    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R409    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         | R566    | ERJ6GEYGL82 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R410    | ERJ6GEY000  | M.RESISTOR CH 1/10W      | 1   |         | R567    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R411    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         | R568    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R412    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         | R569    | ERJ6GEYGL53 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R413-16 | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 4   |         | R570    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R417    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         | R571    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R418    | ERJ6GEYGL51 | M.RESISTOR CH 1/10W 150  | 1   |         | R572    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R573,74 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 2K   | 2   |         |
| R576    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R577    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R578    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R579,80 | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 2   |         |
| R581,82 | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R583    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R584    | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R585    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R586    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R587    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R588    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R590    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R591    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R592    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R593,94 | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 2   |         |
| R595,96 | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R597    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R598    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R599    | ERJ6GEYG622 | M.RESISTOR CH 1/10W 6.2K | 1   |         |
| R600    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R601,02 | VR80034E301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R603    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R604    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R605    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R606    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R607    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R608    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R609,10 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R611    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R612    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R613    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R614    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R615    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R616    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R617    | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R618    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R619    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R620    | ERJ6GEYG271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R621    | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R622    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R623    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R630    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R633    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R634    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R635    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R636    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R637    | ERJ6GEYG183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R642    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R643    | ERJ6GEYG822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R644    | ERJ6GEYG133 | M.RESISTOR CH 1/10W 13K  | 1   |         |
| R645    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R646    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R647    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R648,49 | ERJ6GEYG473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R650    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R651    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R652    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R653    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R654,55 | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R656    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R657    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R658    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R659    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R660    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R661    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R662    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R663    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R664    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R665    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R666    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R667    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R668    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R669    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R670    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R671    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R672,73 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R674    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R675    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R676    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R677    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R678    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R679    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R680    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R681    | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R682    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R683    | ERJ6GEYG124 | M.RESISTOR CH 1/10W 120K | 1   |         |
| R684    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R685    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R686    | ERJ6GEYG181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R687    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R688    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R689    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R690,91 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R692,93 | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R694,95 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R696,97 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R698,99 | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R700,01 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R702    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R703    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R704-07 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 4   |         |
| R709    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R711    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R714,15 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R716    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R717    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R718    | ERJ6GEYG154 | M.RESISTOR CH 1/10W 150K | 1   |         |
| R719    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R720    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R721    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R722    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R723    | VR80034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R724    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R725    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R726    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R727    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R728    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R729    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R730    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R731    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R732    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R733    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R734    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R735    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R736    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R737    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R739,40 | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R741    | ERJ6GEYG105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R742    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R743    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R744    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R800    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R801    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R802    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R803    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R804    | ERJ6GEYG183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R805    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R806    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R807    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R808-10 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 3   |         |
| R811    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R812-14 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 3   |         |
| R815    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R816    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R817    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R819,20 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R821    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R822,23 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R826    | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.



Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.

| Ref. No. | Part No.     | Part Name & Description   | Pos | Remarks     | Ref. No. | Part No.     | Part Name & Description   | Pos | Remarks |
|----------|--------------|---------------------------|-----|-------------|----------|--------------|---------------------------|-----|---------|
|          | VEP83098A    | P.C. BOARD W/COMPONENT    |     | FOR AU-65-F | C222     | ECEA1HUR47   | E. CAPACITOR 50V 0.47U    | 1   |         |
|          |              | W3 MOD & D8MOD            |     |             | C223     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |             | C224     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
|          |              |                           |     |             | C225     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
|          |              |                           |     |             | C226     | VCN0046      | M. CAPACITOR 229P         | 1   |         |
|          |              |                           |     |             | C227     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |             | C228     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C229     | ECEA1AU221   | E. CAPACITOR 10V 220U     | 1   |         |
|          |              |                           |     |             | C230     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |             | C231     | ECUM1H220JUN | C. CAPACITOR CH 50V 22P   | 1   |         |
|          |              |                           |     |             | C232     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C233     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
|          |              |                           |     |             | C234     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
|          |              |                           |     |             | C235     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
|          |              |                           |     |             | C236     | ECUM1H060DCN | C. CAPACITOR CH 50V 6P    | 1   |         |
|          |              |                           |     |             | C237     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
|          |              |                           |     |             | C238     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
|          |              |                           |     |             | C239     | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
|          |              |                           |     |             | C240     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
|          |              |                           |     |             | C241     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
|          |              |                           |     |             | C242     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
|          |              |                           |     |             | C243     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |             | C244     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C245     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
|          |              |                           |     |             | C246-48  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |         |
|          |              |                           |     |             | C252,53  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
|          |              |                           |     |             | C254     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
|          |              |                           |     |             | C255     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C256,57  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
|          |              |                           |     |             | C258     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
|          |              |                           |     |             | C259     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
|          |              |                           |     |             | C260     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C302     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C303     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
|          |              |                           |     |             | C304     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C306     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
|          |              |                           |     |             | C307     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
|          |              |                           |     |             | C308,09  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
|          |              |                           |     |             | C310     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
|          |              |                           |     |             | C311     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C316     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |             | C322     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |             | C325     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |             | C342     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C343     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |         |
|          |              |                           |     |             | C344     | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
|          |              |                           |     |             | C345     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
|          |              |                           |     |             | C346     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C347,48  | ECEA1AU101   | E. CAPACITOR 10V 100U     | 2   |         |
|          |              |                           |     |             | C349     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C350     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         |
|          |              |                           |     |             | C351     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
|          |              |                           |     |             | C352     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C353     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
|          |              |                           |     |             | C354,55  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
|          |              |                           |     |             | C356     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |             | C357     | ECEA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1   |         |
|          |              |                           |     |             | C358     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
|          |              |                           |     |             | C377,78  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
|          |              |                           |     |             | C380     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |             | C381     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C382     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |             | C383     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
|          |              |                           |     |             | C386     | ECUM1H050DCN | C. CAPACITOR CH 50V 50P   | 1   |         |
|          |              |                           |     |             | C387     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
|          |              |                           |     |             | C389     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
|          |              |                           |     |             | C391     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
|          |              |                           |     |             | C392     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C393     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
|          |              |                           |     |             | C394     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C395     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|          |              |                           |     |             | C396,97  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
|          |              |                           |     |             | C398     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
|          |              |                           |     |             | C399     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C400     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C1,C2    | 9CEA1CU101   | E. CAPACITOR 16V 100U     | 2   |             |          |              |                           |     |         |
| C3       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C4       | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |             |          |              |                           |     |         |
| C5       | ECUM1H200CN  | C. CAPACITOR CH 50V 2P    | 1   |             |          |              |                           |     |         |
| C6       | ECUM1H060DCN | C. CAPACITOR CH 50V 6P    | 1   |             |          |              |                           |     |         |
| C7       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C8       | VCN0021      | M. CAPACITOR              | 1   |             |          |              |                           |     |         |
| C9       | VCN0023      | M. CAPACITOR 379P         | 1   |             |          |              |                           |     |         |
| C10,11   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |             |          |              |                           |     |         |
| C12,13   | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |             |          |              |                           |     |         |
| C21      | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |             |          |              |                           |     |         |
| C22      | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |             |          |              |                           |     |         |
| C23      | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |             |          |              |                           |     |         |
| C24      | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |             |          |              |                           |     |         |
| C25      | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |             |          |              |                           |     |         |
| C26      | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |             |          |              |                           |     |         |
| C27      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C28      | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P | 1   |             |          |              |                           |     |         |
| C29,30   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |             |          |              |                           |     |         |
| C31      | ECEA1HUR47   | E. CAPACITOR 50V 0.47U    | 1   |             |          |              |                           |     |         |
| C32      | VCN0047      | M. CAPACITOR              | 1   |             |          |              |                           |     |         |
| C33      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                           |     |         |
| C34      | ECEA1AU221   | E. CAPACITOR 10V 220U     | 1   |             |          |              |                           |     |         |
| C35      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C36      | ECUM1H220JUN | C. CAPACITOR CH 50V 22P   | 1   |             |          |              |                           |     |         |
| C37      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                           |     |         |
| C38      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C39      | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |             |          |              |                           |     |         |
| C40      | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |             |          |              |                           |     |         |
| C41      | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |             |          |              |                           |     |         |
| C42      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             |          |              |                           |     |         |
| C43,44   | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |             |          |              |                           |     |         |
| C45-47   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |             |          |              |                           |     |         |
| C48      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                           |     |         |
| C49      | ECUM1H332KBN | C. CAPACITOR CH 50V 3300P | 1   |             |          |              |                           |     |         |
| C50,51   | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 2   |             |          |              |                           |     |         |
| C52      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C54      | ECUM1H471JCN | C. CAPACITOR CH 50V 470P  | 1   |             |          |              |                           |     |         |
| C56      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C57      | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |             |          |              |                           |     |         |
| C60      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C61      | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |             |          |              |                           |     |         |
| C62      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C63      | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |             |          |              |                           |     |         |
| C64      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C65      | BCSP1CE106   | T. CAPACITOR 16V 10U      | 1   |             |          |              |                           |     |         |
| C66      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C67      | BCSP1CE106   | T. CAPACITOR 16V 10U      | 1   |             |          |              |                           |     |         |
| C68      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C69,70   | BCSP1CE106   | T. CAPACITOR 16V 10U      | 2   |             |          |              |                           |     |         |
| C71      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                           |     |         |
| C72      | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |             |          |              |                           |     |         |
| C73,74   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |             |          |              |                           |     |         |
| C201,02  | ECEA1CU101   | E. CAPACITOR 16V 100U     | 2   |             |          |              |                           |     |         |
| C203     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |             |          |              |                           |     |         |
| C204     | ECUM1H200CN  | C. CAPACITOR CH 50V 2P    | 1   |             |          |              |                           |     |         |
| C205,06  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |             |          |              |                           |     |         |
| C213     | VCN0021      | M. CAPACITOR              | 1   |             |          |              |                           |     |         |
| C214     | VCN0024      | M. CAPACITOR 270P         | 1   |             |          |              |                           |     |         |
| C215     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |             |          |              |                           |     |         |
| C216     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |             |          |              |                           |     |         |
| C217     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                           |     |         |
| C218,19  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |             |          |              |                           |     |         |
| C220,21  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |             |          |              |                           |     |         |

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| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks | Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|---------|--------------|---------------------------|-----|---------|---------|--------------|---------------------------|-----|---------|
| C401-03 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         | C768,69 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C404    | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         | C770    | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C405-07 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |         | C771    | ECUM1H681JCN | C. CAPACITOR CH 50V 680P  | 1   |         |
| C408,09 | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 2   |         | C772    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C410    | ECFA1AU471   | E. CAPACITOR 10V 470U     | 1   |         | C773-75 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C411    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C776    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C412    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         | C777    | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C413    | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         | C778,79 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C414    | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         | C780,81 | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 2   |         |
| C415    | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C782    | ECFA1AU471   | E. CAPACITOR 10V 470U     | 1   |         |
| C416    | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         | C783    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C417,18 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | C784    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C419    | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         | C785    | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C420    | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         | C786    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C421    | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         | C787    | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C422    | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | C788    | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C423    | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         | C789,90 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C424    | ECFA1CU100   | E. CAPACITOR 16V 10U      | 1   |         | C791    | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C425    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         | C792    | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C426    | VCMD044      | M. CAPACITOR 130P         | 1   |         | C793    | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C427    | VCMD023      | M. CAPACITOR 379P         | 1   |         | C794    | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C428    | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         | C796    | ECFA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C432    | ECFA0J221    | E. CAPACITOR 6.3V 220U    | 1   |         | C797    | VCMD046      | M. CAPACITOR 229P         | 1   |         |
| C433    | ECUM1H050JCN | C. CAPACITOR CH 50V 50P   | 1   |         | C798    | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C434    | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         | C799    | ECFA0J221    | E. CAPACITOR 6.3V 220U    | 1   |         |
| C435    | ECUM1H020JCN | C. CAPACITOR CH 50V 2P    | 1   |         | C800    | ECUM1H050JCN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C436,37 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C801    | ECUM1H020JCN | C. CAPACITOR CH 50V 2P    | 1   |         |
| C438    | VCMD023      | M. CAPACITOR 379P         | 1   |         | C802    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C439    | VCMD057      | M. CAPACITOR 169P         | 1   |         | C803,04 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C440    | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C805    | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C441    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C806    | VCMD057      | M. CAPACITOR 169P         | 1   |         |
| C442,43 | ECFA1CU221   | E. CAPACITOR 16V 220U     | 2   |         | C807    | VCMD024      | M. CAPACITOR 270P         | 1   |         |
| C444,45 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C808    | ECFA1CU221   | E. CAPACITOR 16V 220U     | 1   |         |
| C450    | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         | C810    | ECFA1CU221   | E. CAPACITOR 16V 220U     | 1   |         |
| C453    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C811,12 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C467    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C817    | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C468    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C818    | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C469    | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         | C821    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C701,02 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |         |              |                           |     |         |
| C703    | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |         |              |                           |     |         |
| C704,05 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |         |              |                           |     |         |
| C725    | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         | D1,D2   | MA151K       | DIODE                     | 2   |         |
| C726    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | D3      | MA151WK      | DIODE                     | 1   |         |
| C727    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | D201    | MA151WK      | DIODE                     | 1   |         |
| C728    | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         | D301    | MA151WK      | DIODE                     | 1   |         |
| C729    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         | D303    | MA151K       | DIODE                     | 1   |         |
| C730,31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | D305    | MA151K       | DIODE                     | 1   |         |
| C732    | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         | D306,07 | MA151WK      | DIODE                     | 2   |         |
| C733    | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         | D308,09 | MA151WA      | DIODE                     | 1   |         |
| C734    | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         | D701    | MA151WK      | DIODE                     | 1   |         |
| C735    | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         | D702,03 | MA151K       | DIODE                     | 2   |         |
| C736    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | D705    | MA151K       | DIODE                     | 1   |         |
| C737    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         | D706    | MA151WK      | DIODE                     | 1   |         |
| C738    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |         |              |                           |     |         |
| C740-42 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |         |              |                           |     |         |
| C744    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | DL301   | VLD0191      | DELAY                     | 1   |         |
| C745    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | DL701   | VLD0191      | DELAY                     | 1   |         |
| C746    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |         |              |                           |     |         |
| C747    | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |         |              |                           |     |         |
| C749    | ECUM1H561JCN | C. CAPACITOR CH 50V 560P  | 1   |         |         |              |                           |     |         |
| C750    | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |         |              |                           |     |         |
| C751    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         | FL1     | ELB5F100     | FILTER                    | 1   |         |
| C752    | ECUM1H561JCN | C. CAPACITOR CH 50V 560P  | 1   |         | FL201   | ELB5F100     | FILTER                    | 1   |         |
| C753    | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |         | FL302   | VLF0787      | FILTER                    | 1   |         |
| C754    | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         | FL303   | VLF0819      | FILTER                    | 1   |         |
| C755    | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | FL701   | VLF0821      | FILTER                    | 1   |         |
| C756    | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |         |              |                           |     |         |
| C757    | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |         |              |                           |     |         |
| C758    | ECUM1H050JCN | C. CAPACITOR CH 50V 50P   | 1   |         |         |              |                           |     |         |
| C759    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC1     | NES539D      | IC                        | 1   |         |
| C760    | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         | IC2     | UPD4053BG    | IC                        | 1   |         |
| C762    | ECUM1H471JCN | C. CAPACITOR CH 50V 470P  | 1   |         | IC3     | RC084M       | IC                        | 1   |         |
| C764    | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         | IC4     | RC082BN      | IC                        | 1   |         |
| C765,66 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | IC5     | AN6306S      | IC                        | 1   |         |
| C767    | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         | IC6     | MC14538BF    | IC                        | 1   |         |

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| Ref. No. | Part No.     | Part Name & Description | Fcs | Remarks | Ref. No. | Part No.     | Part Name & Description | Fcs      | Remarks |
|----------|--------------|-------------------------|-----|---------|----------|--------------|-------------------------|----------|---------|
| IC7      | TC74HC221AF  | IC                      | 1   |         | L721     | VLQEL05S4R7J | COIL 4.7UH              | 1        |         |
| IC9      | AN79N09      | IC                      | 1   |         | L722     | VLQEL05S3R3J | COIL 3.3UH              | 1        |         |
| IC10     | AN79N09      | IC                      | 1   |         | L723     | VLQEL05S330J | COIL 33UH               | 1        |         |
| IC11,12  | AN79N05F     | IC                      | 2   |         | L724     | VLQEL05F101K | COIL 100UH              | 1        |         |
| IC13     | AN78N05F     | IC                      | 1   |         | L725     | VLQEL05S1R5J | COIL 1.5UH              | 1        |         |
| IC14     | AN78N05      | IC                      | 1   |         | L726-28  | VLQEL05F101K | COIL 100UH              | 3        |         |
| IC15     | AN78N09      | IC                      | 1   |         | L729     | VLQEL05S150J | COIL 15UH               | 1        |         |
| IC16     | AN78L05      | IC                      | 1   |         | L731     | VLQEL05F101K | COIL 100UH              | 1        |         |
| IC17     | AN78N09      | IC                      | 1   |         | L732     | VLQEL05S6R8J | COIL 6.8UH              | 1        |         |
| IC201    | NE5539D      | IC                      | 1   |         | L733     | VLQEL05F101K | COIL 100UH              | 1        |         |
| IC202    | TC74HC221AF  | IC                      | 1   |         |          |              |                         |          |         |
| IC203    | AN6306S      | IC                      | 1   |         |          |              |                         |          |         |
| IC301    | AN6308S      | IC                      | 1   |         |          |              |                         |          |         |
| IC306    | NJM1496M     | IC                      | 1   |         | Q1       | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R)  |         |
| IC307    | UPD4053BG    | IC                      | 1   |         | Q2       | 2SC3757      | TRANSISTOR              | 1 (Q,R)  |         |
| IC310    | AN6308S      | IC                      | 1   |         | Q3,Q4    | 2SA1226      | TRANSISTOR              | 1        |         |
| IC311-15 | 10116D       | IC                      | 5   |         | Q5       | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R)  |         |
| IC316    | SN74LS123NS  | IC                      | 1   |         | Q6       | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| IC317    | MC74HC00AF   | IC                      | 1   |         | Q7       | 2SC2480      | TRANSISTOR              | 1        |         |
| IC319    | NE5539D      | IC                      | 1   |         | Q8       | 2SA1462      | TRANSISTOR              | 1        |         |
| IC326    | RC0828M      | IC                      | 1   |         | Q9       | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| IC701    | AN6308S      | IC                      | 1   |         | Q10      | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| IC705    | NJM1496M     | IC                      | 1   |         | Q14      | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| IC706    | UPD4053BG    | IC                      | 1   |         | Q15      | 2SK374       | TRANSISTOR              | 1        |         |
| IC707    | AN6308S      | IC                      | 1   |         | Q16      | 2SA1226      | TRANSISTOR              | 1        |         |
| IC708-12 | 10116D       | IC                      | 1   |         | Q17      | 2SC3757      | TRANSISTOR              | 1 (Q,R)  |         |
| IC716    | NE5539D      | IC                      | 1   |         | Q18      | 2SA1226      | TRANSISTOR              | 1        |         |
|          |              |                         |     |         | Q19,20   | 2SC2295      | TRANSISTOR CHIP         | 2 (B,C)  |         |
|          |              |                         |     |         | Q21      | UN2213       | TRANSISTOR-RESISTOR     | 1        |         |
|          |              |                         |     |         | Q201     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R)  |         |
| L1, L2   | VLQEL05F101K | COIL 100UH              | 2   |         | Q205,06  | 2SC2295      | TRANSISTOR CHIP         | 2 (B,C)  |         |
| L4       | VLQEL05S151J | COIL 150UH              | 1   |         | Q207     | 2SC2480      | TRANSISTOR              | 1        |         |
| L5       | VLQEL05F101K | COIL 100UH              | 1   |         | Q208     | 2SA1462      | TRANSISTOR              | 1        |         |
| L6       | VLQEL05S1R5J | COIL 1.5UH              | 1   |         | Q209     | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L7       | VLQEL05F101K | COIL 100UH              | 1   |         | Q210     | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L201,02  | VLQEL05F101K | COIL 100UH              | 1   |         | Q211     | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L204     | VLQEL05S561J | COIL 560UH              | 1   |         | Q212     | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L205     | VLQEL05F101K | COIL 100UH              | 1   |         | Q213     | 2SA1226      | TRANSISTOR              | 1        |         |
| L206     | VLQEL05S4R7J | COIL 4.7UH              | 1   |         | Q214     | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L207     | VLQEL05S6R8J | COIL 6.8UH              | 1   |         | Q215     | 2SC3757      | TRANSISTOR              | 1 (Q,R)  |         |
| L208     | VLQEL05S3R9J | COIL 3.9UH              | 1   |         | Q216     | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L209     | VLQEL05S390J | COIL 39UH               | 1   |         | Q217     | 2SC3757      | TRANSISTOR              | 1 (Q,R)  |         |
| L210     | VLQEL05F101K | COIL 100UH              | 1   |         | Q218     | 2SA1226      | TRANSISTOR              | 1        |         |
| L212     | VLQEL05F101K | COIL 100UH              | 1   |         | Q219,20  | 2SC2295      | TRANSISTOR CHIP         | 2 (B,C)  |         |
| L301     | VLQEL05F101K | COIL 100UH              | 1   |         | Q301-04  | 2SC2295      | TRANSISTOR CHIP         | 4 (B,C)  |         |
| L302,03  | VLQEL05S150J | COIL 15UH               | 2   |         | Q313,14  | 2SC2295      | TRANSISTOR CHIP         | 2 (B,C)  |         |
| L304     | VLQEL05F101K | COIL 100UH              | 1   |         | Q315     | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L306     | VLQEL05S2R7J | COIL 2.7UH              | 1   |         | Q316     | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L309,10  | VLQEL05F101K | COIL 100UH              | 2   |         | Q317,18  | 2SA1022      | TRANSISTOR CHIP         | 2 (B,C)  |         |
| L311     | VLQEL05S220J | COIL 22UH               | 1   |         | Q319     | 1N44         | TRANSISTOR              | 1        |         |
| L312     | VLQEL05S3R3J | COIL 3.3UH              | 1   |         | Q320     | UN2113       | TRANSISTOR-RESISTOR     | 1        |         |
| L313     | VLQEL05F101K | COIL 100UH              | 1   |         | Q324     | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L316     | VLQEL05F101K | COIL 100UH              | 1   |         | Q326     | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L320     | VLQEL05S2R2J | COIL 2.2UH              | 1   |         | Q327     | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L321     | VLQEL05S2R7J | COIL 2.7UH              | 1   |         | Q329-38  | 2SC2295      | TRANSISTOR CHIP         | 10 (B,C) |         |
| L322     | VLQEL05S220J | COIL 22UH               | 1   |         | Q339,40  | UN2213       | TRANSISTOR-RESISTOR     | 2        |         |
| L323     | VLQEL05F101K | COIL 100UH              | 1   |         | Q341     | 2SA1462      | TRANSISTOR              | 1        |         |
| L324     | VLQEL05S1R0J | COIL 1UH                | 1   |         | Q342,43  | 2SC3757      | TRANSISTOR              | 2 (Q,R)  |         |
| L325-27  | VLQEL05F101K | COIL 100UH              | 3   |         | Q344     | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L328     | VLQEL05S470J | COIL 47UH               | 1   |         | Q345     | 2SA1022      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L329     | VLQEL05F101K | COIL 100UH              | 1   |         | Q346     | 2SC2480      | TRANSISTOR              | 1        |         |
| L333     | VLQEL05F101K | COIL 100UH              | 1   |         | Q347     | 2SA1462      | TRANSISTOR              | 1        |         |
| L334     | VLQEL05S6R8J | COIL 6.8UH              | 1   |         | Q351     | 2SK374       | TRANSISTOR              | 1        |         |
| L335     | VLQEL05F101K | COIL 100UH              | 1   |         | Q352     | 2SC3757      | TRANSISTOR              | 1 (Q,R)  |         |
| L701     | VLQEL05F101K | COIL 100UH              | 1   |         | Q353     | 2SA1226      | TRANSISTOR              | 1        |         |
| L709     | VLQEL05S4R7J | COIL 4.7UH              | 1   |         | Q356-61  | UN2113       | TRANSISTOR-RESISTOR     | 6        |         |
| L710     | VLQEL05F101K | COIL 100UH              | 1   |         | Q376     | 2SA1462      | TRANSISTOR              | 1        |         |
| L711     | VLQEL05S560J | COIL 56UH               | 1   |         | Q377     | 2SA1226      | TRANSISTOR              | 1        |         |
| L712     | VLQEL05F101K | COIL 100UH              | 1   |         | Q378     | 2SB709       | TRANSISTOR CHIP         | 1 (Q,R)  |         |
| L713     | VLQEL05S3R9J | COIL 3.9UH              | 1   |         | Q379     | 2SC2480      | TRANSISTOR              | 1        |         |
| L715     | VLQEL05F101K | COIL 100UH              | 1   |         | Q382-84  | 2SC3757      | TRANSISTOR              | 3 (Q,R)  |         |
| L716     | VLQEL05S1R1J | COIL 18UH               | 1   |         | Q385     | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| L717     | VLQEL05S6R0J | COIL 69UH               | 1   |         | Q386     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R)  |         |
| L718     | VLQEL05S3R3J | COIL 3.3UH              | 1   |         | Q701,02  | 2SA1022      | TRANSISTOR CHIP         | 2 (B,C)  |         |
| L719,20  | VLQEL05S6R2J | COIL 6.2UH              | 2   |         | Q710,11  | 2SC2295      | TRANSISTOR CHIP         | 2 (B,C)  |         |

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| Ref.No. | Part No.    | Part Name & Description   | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description   | Pcs | Remarks |
|---------|-------------|---------------------------|-----|---------|---------|-------------|---------------------------|-----|---------|
| Q712    | 2SA1022     | TRANSISTOR CHIP           | 1   | (B,C)   | R70     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| Q713    | 2SC2295     | TRANSISTOR CHIP           | 1   | (B,C)   | R71     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| Q714,15 | 2SA1022     | TRANSISTOR CHIP           | 2   | (B,C)   | R72     | ERJ6GEYJ123 | M.RESISTOR CH1/10W 12K    | 1   |         |
| Q716    | 2SC2295     | TRANSISTOR CHIP           | 1   | (B,C)   | R73,74  | ERJ6GEYJ620 | M.RESISTOR CH 1/10W 82    | 2   |         |
| Q718    | 2SC2295     | TRANSISTOR CHIP           | 1   | (B,C)   | R75,76  | ERJ6GEYJ154 | M.RESISTOR CH1/10W 150K   | 2   |         |
| Q719    | 2SA1022     | TRANSISTOR CHIP           | 1   | (B,C)   | R77     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| Q721-30 | 2SC2295     | TRANSISTOR CHIP           | 10  | (B,C)   | R78     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| Q731    | 1N2213      | TRANSISTOR-RESISTOR       | 1   |         | R79     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| Q732    | 2SA1462     | TRANSISTOR                | 1   |         | R80     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| Q733    | 2SC2295     | TRANSISTOR CHIP           | 1   | (B,C)   | R81     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| Q734    | 2SA1022     | TRANSISTOR CHIP           | 1   | (B,C)   | R82,83  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         |
| Q735    | 2SC2480     | TRANSISTOR                | 1   |         | R84,85  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 2   |         |
| Q736    | 2SA1462     | TRANSISTOR                | 1   |         | R86,87  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| Q740    | 2SK374      | TRANSISTOR                | 1   |         | R88     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| Q741    | 2SC3757     | TRANSISTOR                | 1   | (Q,R)   | R89     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| Q742    | 2SA1226     | TRANSISTOR                | 1   |         | R90     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| Q754    | 2SA1462     | TRANSISTOR                | 1   |         | R92     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| Q755    | 2SA1226     | TRANSISTOR                | 1   |         | R93     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| Q756    | 2SB709      | TRANSISTOR CHIP           | 1   | (Q,R)   | R94     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         |
| Q757    | 2SC2480     | TRANSISTOR                | 1   |         | R95     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K   | 1   |         |
| Q758-60 | 2SC3757     | TRANSISTOR                | 3   | (Q,R)   | R96     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| Q761    | 2SD601      | TRANSISTOR CHIP           | 1   | (Q,R)   | R97     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K   | 1   |         |
|         |             |                           |     |         | R98     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
|         |             |                           |     |         | R99     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
|         |             |                           |     |         | R100    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
|         |             | RESISTORS                 |     |         | R102    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R1      | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R103    | VRE0034E27B | M.RESISTOR CH 1/10W 1.87K | 1   |         |
| R2      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R104    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K   | 1   |         |
| R3      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R105    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R4,R5   | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | R201    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R6      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R202    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R7      | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         | R203    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R8      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R204,05 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 2   |         |
| R9      | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560   | 1   |         | R206    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R10     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R207    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| R11     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R208    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         |
| R12     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R209    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R13     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         | R210    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R14,15  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         | R211    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R16     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R226    | VRE0034E152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R17     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         | R227    | VRE0034E102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R18     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R228    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R19     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         | R229    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R20     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R230    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R21     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R231    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R22     | VRE0034E152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R232    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R23     | VRE0034E102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R233    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R24     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R234    | ERJ6GEYJ243 | M.RESISTOR CH1/10W 24K    | 1   |         |
| R26     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R235,36 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 2   |         |
| R27     | ERJ6GEYJ243 | M.RESISTOR CH1/10W 24K    | 1   |         | R237,38 | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 2   |         |
| R28,29  | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 2   |         | R239,40 | ERJ6GEYJ273 | M.RESISTOR CH1/10W 27K    | 2   |         |
| R30,31  | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 2   |         | R241    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         |
| R32,33  | ERJ6GEYJ273 | M.RESISTOR CH1/10W 27K    | 2   |         | R242    | ERJ6GEYJ181 | M.RESISTOR CH1/10W 180    | 1   |         |
| R34     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         | R243    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R48     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | R244    | ERJ6GEYJ475 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R49     | ERJ6GEYJ181 | M.RESISTOR CH1/10W 180    | 1   |         | R245    | ERJ6GEYJ181 | M.RESISTOR CH1/10W 180    | 1   |         |
| R50     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R246    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R51     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R247    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K   | 1   |         |
| R52     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R248    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K   | 1   |         |
| R53     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R249    | VRE0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         |
| R54     | ERJ6GEYJ225 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R250    | VRE0034E27B | M.RESISTOR CH 1/10W 1.87K | 1   |         |
| R55,56  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         | R251    | ERJ6GEYJ5R6 | M.RESISTOR CH 1/10W 5.6   | 1   |         |
| R57     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R252    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R58     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M    | 1   |         | R253    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R59     | ERJ6GEYJ225 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R254    | ERJ6GEYJ123 | M.RESISTOR CH1/10W 12K    | 1   |         |
| R60     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R255,56 | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68    | 2   |         |
| R61     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         | R257,58 | ERJ6GEYJ154 | M.RESISTOR CH1/10W 150K   | 2   |         |
| R62     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         | R259    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R63     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R260    | ERJ6GEYJ750 | M.RESISTOR CH 1/10W 75    | 1   |         |
| R64     | ERJ6GEYJ243 | M.RESISTOR CH1/10W 24K    | 1   |         | R261    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R65     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         | R262    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R66     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M    | 1   |         | R263    | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390   | 1   |         |
| R67     | VRE0034E27B | M.RESISTOR CH 1/10W 1.87K | 1   |         | R264    | ERJ6GEYJ240 | M.RESISTOR CH1/10W 24     | 1   |         |
| R68     | ERJ6GEYJ5R6 | M.RESISTOR CH 1/10W 5.6   | 1   |         | R265    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R69     | VRE0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         | R266    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description   | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|---------------------------|-----|---------|
| R267    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R403    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         |
| R268    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R404    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R269,70 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R405    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R271    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R406    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R272    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R407    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R273    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R408    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R274    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R409    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R275    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R410    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R276    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R411,12 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 2   |         |
| R277    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R413    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R279,80 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R414    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R281    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R415    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R282,83 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         | R426    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R284    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R427-34 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 8   |         |
| R285    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R435,36 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         |
| R286    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R437    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R287    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R439,39 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 2   |         |
| R288    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R440    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R289    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R441,40 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         |
| R290    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R443,44 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| R291    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R445    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R292    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | R446    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| R293    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R447,48 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         |
| R301    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R449    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R302    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R450,51 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         |
| R303    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R452,53 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         |
| R304    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R454-65 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 12  |         |
| R305    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R466    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         |
| R306    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R467,68 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 2   |         |
| R307    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R469,70 | ERJ6GEYJ150 | M.RESISTOR CH 1/10W 15    | 2   |         |
| R308    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R471,72 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         |
| R309    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R473    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R310    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R474    | ERD52TJ222  | C.RESISTOR 1/4W 2.2K      | 1   |         |
| R332    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R475    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R333,34 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R476    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R335,36 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R478    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R337,38 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R479    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R339,40 | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 2   |         | R480,81 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 2   |         |
| R341    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R482    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R342    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         | R483,84 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K   | 2   |         |
| R343    | ERJ6GEYJ621 | M.RESISTOR CH 1/10W 620  | 1   |         | R485,86 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 2   |         |
| R344    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R487    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R345    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R488    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R346    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R489    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R347    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R490    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R348    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R491    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K   | 1   |         |
| R349    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R492    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R350,51 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         | R493    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R352    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R494,95 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| R353    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R496    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R354    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R497    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R355    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R498    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R356    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R499    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R357    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R500    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R358    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R501    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R359    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R502    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R360,61 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         | R503    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R362    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R504    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         |
| R363    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R505,06 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 2   |         |
| R364    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R507    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R365    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R509    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R366    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R510    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R367    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R511    | VRE0034E278 | M.RESISTOR CH 1/10W 1.67K | 1   |         |
| R368    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R512    | VRE0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         |
| R369    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R513    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R370    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R514    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R371    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R515    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         |
| R394    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R516    | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 1   |         |
| R395    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R517    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0     | 1   |         |
| R396    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R518    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R397    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R519    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R398    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R520    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R399,00 | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 2   |         | R521    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| R401    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R522    | VRE0034E26A | M.RESISTOR CH 1/10W 182   | 1   |         |
| R402    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R523    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |

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| Ref.No.  | Part No.    | Part Name & Description   | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description   | Pcs | Remarks |
|----------|-------------|---------------------------|-----|---------|----------|-------------|---------------------------|-----|---------|
| R524     | VRB0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | R756     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         |
| R525     | VRB0034E21B | M.RESISTOR CH 1/10W 1.62K | 1   |         | R757     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R526, 27 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | R758     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R528     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R759     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R529     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R760     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R530     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         | R761     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R531, 32 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 2   |         | R762, 63 | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 2   |         |
| R533, 34 | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 2   |         | R764     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R535, 36 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 2   |         | R765     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R537     | ERJ6GEYJ243 | M.RESISTOR CH 1/10W 24K   | 1   |         | R766     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         |
| R549     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R767     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R550     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R768     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R551     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         | R769     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R552     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R770     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R553     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R771     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R554     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R772     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R555     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R773     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R556     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K  | 1   |         | R774, 75 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 2   |         |
| R561-63  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 3   |         | R776     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R564     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R777     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R565     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R778     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R566     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R789     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R567     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R790-97  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 8   |         |
| R620     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R798, 99 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         |
| R624-26  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 3   |         | R800     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R627     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R801, 02 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 2   |         |
| R628     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R803     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R629     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R804, 05 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 2   |         |
| R630, 31 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         | R806, 07 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| R633     | ERDS2TJ331  | C.RESISTOR 1/4W 330       | 1   |         | R808     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R636     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R809     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| R637     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R810, 11 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         |
| R639, 40 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 2   |         | R812     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R643     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | R813, 14 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R644     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R815, 16 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         |
| R648     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R817-28  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 12  |         |
| R649     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R829     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         |
| R650, 51 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | R830, 31 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 2   |         |
| R656     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R832, 33 | ERJ6GEYJ150 | M.RESISTOR CH 1/10W 15    | 2   |         |
| R658, 59 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | R834, 35 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         |
| R701     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R836     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R702     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R837     | ERDS2TJ222  | C.RESISTOR 1/4W 2.2K      | 1   |         |
| R703     | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820   | 1   |         | R838-40  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R704     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0     | 1   |         | R841     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R705     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R842     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R712     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R843, 44 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R723, 24 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         | R845     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R725     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R846, 47 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K   | 2   |         |
| R726     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R848, 49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 2   |         |
| R727     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R850     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R728, 29 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | R851     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R730     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R852     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R731     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R853     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R732, 33 | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390   | 2   |         | R854     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R734     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R855     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R735     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R856, 57 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| R736     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270   | 1   |         | R858     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R737     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R859     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R738     | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820   | 1   |         | R860     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R739     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R861     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R740     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R862     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R741     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R863     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R742     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | R864     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R743     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K   | 1   |         | R865     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R744     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         | R866     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         |
| R745, 46 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W       | 1   |         | R867     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         |
| R747     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R869     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R748     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R871     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R749     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R872     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R750     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R873     | VRB0034E27B | M.RESISTOR CH 1/10W 1.87K | 1   |         |
| R751     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R874     | VRB0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         |
| R752     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R875     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R753     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R876     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R754     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 1K    | 1   |         | R877     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R755     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R878     | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 1   |         |

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| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks     | Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|-------------|---------|--------------|--------------------------|-----|---------|
|         | VEP8309BC    | P.C. BOARD W/COMPONENT   |     | FOR AD-62-P | C415    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         |
|         |              | W3 MOD & DEMOB           |     |             | C416    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         |
|         |              |                          |     |             | C417,18 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
|         |              |                          |     |             | C419    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
|         |              |                          |     |             | C420    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
|         |              |                          |     |             | C421    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
|         |              |                          |     |             | C422    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
|         |              |                          |     |             | C423    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              |                          |     |             | C424    | ECEA1C0100   | E.CAPACITOR 16V 10U      | 1   |         |
|         |              |                          |     |             | C425    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
|         |              | CAPACITORS               |     |             | C426    | VCM0044      | M.CAPACITOR 130P         | 1   |         |
| C51     | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |             | C427    | VCM0023      | M.CAPACITOR 379P         | 1   |         |
| C52     | ECEA1C0470   | E.CAPACITOR 16V 47U      | 1   |             | C428    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C53     | ECEA1C0101   | E.CAPACITOR 16V 100U     | 1   |             | C432    | ECEA1M221    | E.CAPACITOR 10V 220U     | 1   |         |
| C54     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |             | C433    | ECUM1H050JCN | C.CAPACITOR CH 50V 50P   | 1   |         |
| C55     | ECEA1C0101   | E.CAPACITOR 16V 100U     | 1   |             | C434    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C56     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |             | C435    | ECUM1H020JCN | C.CAPACITOR CH 50V 2P    | 1   |         |
| C57,68  | ECEA1C0101   | E.CAPACITOR 16V 100U     | 2   |             | C436,37 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C59,70  | ECEA1A0101   | E.CAPACITOR 10V 100U     | 2   |             | C438    | VCM0023      | M.CAPACITOR 379P         | 1   |         |
| C71     | ECEA1C0470   | E.CAPACITOR 16V 47U      | 1   |             | C439    | VCM0057      | M.CAPACITOR 169P         | 1   |         |
| C72     | ECEA1C0101   | E.CAPACITOR 16V 100U     | 1   |             | C440    | ECUM1H100JCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C302    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C442,43 | ECEA1C0221   | E.CAPACITOR 15V 220U     | 2   |         |
| C303    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |             | C444,45 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C304    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C450    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |         |
| C306    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |             | C453    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C307    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |             | C467    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C308,09 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |             | C468    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C310    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |             | C469    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C311    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C701,02 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C316    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |             | C703    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |         |
| C322    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |             | C704,05 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C325    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |             | C725    | EOCTFH180JC  | C.CAPACITOR 50V 18P      | 1   |         |
| C342    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C726    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C343    | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 1   |             | C727    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C344    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |             | C728    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C345    | ECUM1H100JCN | C.CAPACITOR CH 50V 10P   | 1   |             | C729    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C346    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C730,31 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C347,48 | ECEA1A0101   | E.CAPACITOR 10V 100U     | 2   |             | C732    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C349    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C733    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |         |
| C350    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |             | C734    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C351    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |             | C735    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |         |
| C352    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C736    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C353    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |             | C737    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C354,55 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |             | C738    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C356    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |             | C744    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C357    | ECEA1H02R2   | E.CAPACITOR 50V 2.2U     | 1   |             | C745    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C358    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |             | C746    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C380    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |             | C747    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |         |
| C381    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C749    | ECUM1H561JCN | C.CAPACITOR CH 50V 560P  | 1   |         |
| C382    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |             | C750    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C383    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |             | C751    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C384    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C752    | ECUM1H561JCN | C.CAPACITOR CH 50V 560P  | 1   |         |
| C386    | ECUM1H050JCN | C.CAPACITOR CH 50V 50P   | 1   |             | C753    | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 1   |         |
| C387    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |             | C754    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         |
| C388    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |             | C755    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C389    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C756    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C390    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |             | C757    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C391    | ECUM1H100JCN | C.CAPACITOR CH 50V 10P   | 1   |             | C758    | ECUM1H050JCN | C.CAPACITOR CH 50V 50P   | 1   |         |
| C392    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C759    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C393    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |             | C760    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C394    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C761    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C395    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |             | C762    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C396,97 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |             | C763    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C398    | ECUM1H103KBN | C.CAPACITOR CH 50V 15P   | 1   |             | C764    | ECUM1H100JCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C399    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             | C765,66 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C400    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |             | C767    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |         |
| C401-03 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |             | C768,69 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C404    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |             | C770    | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |         |
| C405-07 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 3   |             | C771    | ECUM1H681JCN | C.CAPACITOR CH 50V 680P  | 1   |         |
| C406,09 | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 2   |             | C772    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C410    | ECEA1A0471   | E.CAPACITOR 10V 470U     | 1   |             | C773-75 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         |
| C411    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |             | C776    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C412    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |             | C777    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |         |
| C413    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |             | C778,79 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C414    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |             | C780,81 | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 2   |         |

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| Ref.No.  | Part No.     | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|--------------------------|-----|---------|---------|--------------|-------------------------|-----|---------|
| C782     | ECFA1AU471   | E.CAPACITOR 10V 470U     | 1   |         | L301    | VLQEL05F101K | COIL 100UH              | 1   |         |
| C783     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | L302,03 | VLQEL05S150J | COIL 15UH               | 2   |         |
| C784     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         | L304    | VLQEL05F101K | COIL 100UH              | 1   |         |
| C785     | ECFA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | L308    | VLQEL05S2R7J | COIL 2.7UH              | 1   |         |
| C786     | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         | L309,10 | VLQEL05F101K | COIL 100UH              | 2   |         |
| C787     | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         | L311    | VLQEL05S220J | COIL 22UH               | 1   |         |
| C788     | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         | L312    | VLQEL05S3R3J | COIL 3.3UH              | 1   |         |
| C789,90  | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         | L313    | VLQEL05F101K | COIL 100UH              | 1   |         |
| C791     | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         | L318    | VLQEL05F101K | COIL 100UH              | 1   |         |
| C792     | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         | L320    | VLQEL05S2R2J | COIL 2.2UH              | 1   |         |
| C793     | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         | L321    | VLQEL05S120J | COIL 12UH               | 1   |         |
| C794     | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         | L322    | VLQEL05S5R6J | COIL 5.6UH              | 1   |         |
| C796     | ECFA1CU100   | E.CAPACITOR 16V 10U      | 1   |         | L323    | VLQEL05F101K | COIL 100UH              | 1   |         |
| C797     | UCMO046      | M.CAPACITOR 229P         | 1   |         | L324    | VLQEL05S4R7M | COIL 0.47UH             | 1   |         |
| C798     | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         | L325-27 | VLQEL05F101K | COIL 100UH              | 3   |         |
| C799     | ECFA1AU221   | E.CAPACITOR 10V 220U     | 1   |         | L328    | VLQEL05S6R8J | COIL 6.8UH              | 1   |         |
| C800     | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         | L329    | VLQEL05F101K | COIL 100UH              | 1   |         |
| C801     | ECUM1H020CCN | C.CAPACITOR CH 50V 2P    | 1   |         | L333-35 | VLQEL05F101K | COIL 100UH              | 3   |         |
| C802     | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         | L701    | VLQEL05F101K | COIL 100UH              | 1   |         |
| C803,04  | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         | L709    | VLQEL05S4R7J | COIL 4.7UH              | 1   |         |
| C805     | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         | L710    | VLQEL05F101K | COIL 100UH              | 1   |         |
| C806     | UCMO057      | M.CAPACITOR 169P         | 1   |         | L711    | VLQEL05S560J | COIL 56UH               | 1   |         |
| C807     | UCMO024      | M.CAPACITOR 270P         | 1   |         | L712    | VLQEL05F101K | COIL 100UH              | 1   |         |
| C808     | ECFA1CU221   | E.CAPACITOR 16V 220U     | 1   |         | L713    | VLQEL05S3R9J | COIL 3.9UH              | 1   |         |
| C810     | ECFA1CU221   | E.CAPACITOR 16V 220U     | 1   |         | L715    | VLQEL05F101K | COIL 100UH              | 1   |         |
| C811,12  | ECUM1H103KCN | C.CAPACITOR CH 50V 0.01U | 2   |         | L716    | VLQEL05S181J | COIL 180UH              | 1   |         |
| C817     | ECFA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | L717    | VLQEL05S660J | COIL 66UH               | 1   |         |
| C818     | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         | L718    | VLQEL05S3R3J | COIL 3.3UH              | 1   |         |
| C821     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | L719,20 | VLQEL05S8R2J | COIL 8.2UH              | 2   |         |
|          |              |                          |     |         | L721    | VLQEL05S2R2J | COIL 2.2UH              | 1   |         |
|          |              |                          |     |         | L722    | VLQEL05S150J | COIL 15UH               | 1   |         |
| D301     | MA151MK      | DIODE                    | 1   |         | L723    | VLQEL05S8R2J | COIL 8.2UH              | 1   |         |
| D303     | MA151K       | DIODE                    | 1   |         | L724    | VLQEL05F101K | COIL 100UH              | 1   |         |
| D305     | MA151K       | DIODE                    | 1   |         | L725    | VLQEL05S4R7M | COIL 0.47UH             | 1   |         |
| D306,07  | MA151MK      | DIODE                    | 2   |         | L726-28 | VLQEL05F101K | COIL 100UH              | 3   |         |
| D308,09  | MA151MA      | DIODE                    | 2   |         | L729    | VLQEL05S150J | COIL 15UH               | 1   |         |
| D701     | MA151MK      | DIODE                    | 1   |         | L731-33 | VLQEL05F101K | COIL 100UH              | 3   |         |
| D702,03  | MA151K       | DIODE                    | 2   |         |         |              |                         |     |         |
| D705     | MA151K       | DIODE                    | 1   |         |         |              |                         |     |         |
| D706     | MA151MK      | DIODE                    | 1   |         |         |              |                         |     |         |
|          |              |                          |     |         |         |              |                         |     |         |
|          |              |                          |     |         |         |              |                         |     |         |
| DL301    | VLD0191      | DELAY                    | 1   |         | Q301-04 | 2SC2295      | TRANSISTOR CHIP         | 4   | (B,C)   |
| DL701    | VLD0191      | DELAY                    | 1   |         | Q313,14 | 2SC2295      | TRANSISTOR CHIP         | 2   | (B,C)   |
|          |              |                          |     |         | Q315    | 2SA1022      | TRANSISTOR CHIP         | 1   | (B,C)   |
|          |              |                          |     |         | Q316    | 2SC2295      | TRANSISTOR CHIP         | 1   | (B,C)   |
|          |              |                          |     |         | Q317,18 | 2SA1022      | TRANSISTOR CHIP         | 2   | (B,C)   |
|          |              |                          |     |         | Q319    | 1PK4         | TRANSISTOR              | 1   |         |
|          |              |                          |     |         | Q320    | UN2113       | TRANSISTOR-RESISTOR     | 1   |         |
|          |              |                          |     |         | Q324    | 2SC2295      | TRANSISTOR CHIP         | 1   | (B,C)   |
| FL302    | VLFO787      | FILTER                   | 1   |         | Q325    | 2SA1022      | TRANSISTOR CHIP         | 1   | (B,C)   |
| FL303    | VLFO819      | FILTER                   | 1   |         | Q326    | 2SC2295      | TRANSISTOR CHIP         | 1   | (B,C)   |
| FL701    | VLFO821      | FILTER                   | 1   |         | Q327,28 | 2SA1022      | TRANSISTOR CHIP         | 2   | (B,C)   |
|          |              |                          |     |         | Q329    | 2SC2295      | TRANSISTOR CHIP         | 1   | (B,C)   |
|          |              |                          |     |         | Q330    | 2SA1022      | TRANSISTOR CHIP         | 1   | (B,C)   |
|          |              |                          |     |         | Q331-38 | 2SC2295      | TRANSISTOR CHIP         | 8   | (B,C)   |
| IC10     | AN79N05      | IC                       | 1   |         | Q339,40 | UN2113       | TRANSISTOR-RESISTOR     | 2   |         |
| IC11,12  | AN79M05F     | IC                       | 2   |         | Q341    | 2SA1462      | TRANSISTOR              | 1   |         |
| IC13     | AN78N05F     | IC                       | 1   |         | Q342,43 | 2SC3757      | TRANSISTOR              | 2   | (Q,R)   |
| IC14     | AN78N05      | IC                       | 1   |         | Q344    | 2SC2295      | TRANSISTOR CHIP         | 1   | (B,C)   |
| IC15     | AN78N09      | IC                       | 1   |         | Q345    | 2SA1022      | TRANSISTOR CHIP         | 1   | (B,C)   |
| IC301    | AN630BS      | IC                       | 1   |         | Q346    | 2SC2480      | TRANSISTOR              | 1   |         |
| IC306    | NJM1496M     | IC                       | 1   |         | Q347    | 2SA1462      | TRANSISTOR              | 1   |         |
| IC307    | UPD4053BG    | IC                       | 1   |         | Q351    | 29K374       | TRANSISTOR              | 1   |         |
| IC311-15 | 10116D       | IC                       | 5   |         | Q352    | 2SC3757      | TRANSISTOR              | 1   | (Q,R)   |
| IC316    | SN74LS123NS  | IC                       | 1   |         | Q353    | 2SA1226      | TRANSISTOR              | 1   |         |
| IC317    | MC74HC00AF   | IC                       | 1   |         | Q354    | 2SD601       | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC319    | NE5539D      | IC                       | 1   |         | Q355    | 2SA1022      | TRANSISTOR CHIP         | 1   | (B,C)   |
| IC326    | RC082BM      | IC                       | 1   |         | Q356-61 | UN2113       | TRANSISTOR-RESISTOR     | 6   |         |
| IC701    | AN630BS      | IC                       | 1   |         | Q376    | 2SA1462      | TRANSISTOR              | 1   |         |
| IC705    | NJM1496M     | IC                       | 1   |         | Q377    | 2SA1226      | TRANSISTOR              | 1   |         |
| IC706    | UPD4053BG    | IC                       | 1   |         | Q378    | 2SB709       | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC708-12 | 10116D       | IC                       | 5   |         | Q379    | 2SC2480      | TRANSISTOR              | 1   |         |
| IC716    | NE5539D      | IC                       | 1   |         | Q382-84 | 2SC3757      | TRANSISTOR              | 3   | (Q,R)   |
|          |              |                          |     |         | Q395    | 2SC2295      | TRANSISTOR CHIP         | 1   | (B,C)   |
|          |              |                          |     |         | Q701,02 | 2SA1022      | TRANSISTOR CHIP         | 2   | (B,C)   |
|          |              |                          |     |         |         |              |                         |     |         |
|          |              |                          |     |         |         |              |                         |     |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs     | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|---------|---------|---------|-------------|--------------------------|-----|---------|
| Q710,11 | 2SC2295     | TRANSISTOR CHIP          | 2 (B,C) |         | R370    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q712    | 2SA1022     | TRANSISTOR CHIP          | 1 (B,C) |         | R371    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| Q713    | 2SC2295     | TRANSISTOR CHIP          | 1 (B,C) |         | R397,98 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| Q714,15 | 2SA1022     | TRANSISTOR CHIP          | 2 (B,C) |         | R399    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| Q716    | 2SC2295     | TRANSISTOR CHIP          | 1 (B,C) |         | R400    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q717    | 2SA1022     | TRANSISTOR CHIP          | 1 (B,C) |         | R401-04 | ERJ6GEYJ621 | M.RESISTOR CH 1/10W 620  | 4   |         |
| Q718    | 2SC2295     | TRANSISTOR CHIP          | 1 (B,C) |         | R405    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q719,20 | 2SA1022     | TRANSISTOR CHIP          | 2 (B,C) |         | R406    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| Q721    | 2SC2295     | TRANSISTOR CHIP          | 1 (B,C) |         | R407    | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 1   |         |
| Q722    | 2SA1022     | TRANSISTOR CHIP          | 1 (B,C) |         | R409    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q723-30 | 2SC2295     | TRANSISTOR CHIP          | 8 (B,C) |         | R410    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q731    | UN2213      | TRANSISTOR-RESISTOR      | 1       |         | R411    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| Q732    | 2SA1462     | TRANSISTOR               | 1       |         | R412    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q733    | 2SC2295     | TRANSISTOR CHIP          | 1 (B,C) |         | R413    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q734    | 2SA1022     | TRANSISTOR CHIP          | 1 (B,C) |         | R414    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q735    | 2SC2460     | TRANSISTOR               | 1       |         | R415    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| Q736    | 2SA1462     | TRANSISTOR               | 1       |         | R416,17 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| Q740    | 2SK374      | TRANSISTOR               | 1       |         | R418    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| Q741    | 2SC3757     | TRANSISTOR               | 1 (Q,R) |         | R419    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q742    | 2SA1226     | TRANSISTOR               | 1       |         | R420    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q743    | 2SD601      | TRANSISTOR CHIP          | 1 (Q,R) |         | R421    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q754    | 2SA1462     | TRANSISTOR               | 1       |         | R422    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| Q755    | 2SA1226     | TRANSISTOR               | 1       |         | R423    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q756    | 2SB709      | TRANSISTOR CHIP          | 1 (Q,R) |         | R424    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q757    | 2SC2460     | TRANSISTOR               | 1       |         | R425,26 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| Q758-60 | 2SC3757     | TRANSISTOR               | 3 (Q,R) |         | R427-34 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 8   |         |
|         |             |                          |         |         | R435,36 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
|         |             |                          |         |         | R437    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
|         |             |                          |         |         | R438    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
|         |             | RESISTORS                |         |         | R439    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R20     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         | R440    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R91     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         | R441,42 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         |
| R101    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         | R443,44 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R301    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         | R445    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R302    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1       |         | R446    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R303    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         | R447,48 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R304    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1       |         | R449    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R305    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         | R450,51 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R306    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1       |         | R452,53 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R307    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         | R454-65 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 12  |         |
| R308    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1       |         | R466    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R309    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1       |         | R467,68 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R310    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         | R469,70 | ERJ6GEYJ150 | M.RESISTOR CH 1/10W 15   | 2   |         |
| R332    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1       |         | R471,72 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R333,34 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2       |         | R473    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R335,36 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2       |         | R474    | ERJ6GEYJ222 | C.RESISTOR 1/W 2.2K      | 1   |         |
| R337,38 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2       |         | R475    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R339,40 | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 2       |         | R476    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R341    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         | R478    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R342    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1       |         | R479    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R343    | ERJ6GEYJ621 | M.RESISTOR CH 1/10W 620  | 1       |         | R480,81 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R344    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         | R482    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R345    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1       |         | R483,84 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         |
| R346    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         | R485,86 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R347    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1       |         | R487    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R348    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1       |         | R488    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R349    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1       |         | R489    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R350,51 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2       |         | R490    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R352    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         | R491    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R353    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1       |         | R492    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R354    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1       |         | R493    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R355    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         | R494,95 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R356    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1       |         | R496    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R357    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1       |         | R497    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R358    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1       |         | R498    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R359    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         | R499    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R360,61 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2       |         | R500    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R362    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         | R501    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R363    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1       |         | R502    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R364    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1       |         | R503    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R365    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         | R504    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R366    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1       |         | R505,06 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R367    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1       |         | R507    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R368    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         | R509    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R369    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         | R510    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |

Refer to the P.C.BOARDS LIST, page 6-1-1, before using this page.

| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R511     | VRD0034E27B  | M.RESISTOR CH 1/10W 1.87K | 1   |         | R743     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R512     | VRD0034E751  | M.RESISTOR CH 1/10W 750   | 1   |         | R744     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R513     | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R745, 46 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R514     | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R747     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R515     | ERJ6GEYJ682  | M.RESISTOR CH 1/10W 6.8K  | 1   |         | R748     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R516     | ERJ6GEYJ301  | M.RESISTOR CH 1/10W 300   | 1   |         | R749     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R517     | ERJ6GEYJ0R00 | M.RESISTOR CH 1/10W 0     | 1   |         | R750     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R518     | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470   | 1   |         | R751     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R519     | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R752     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R520     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 1   |         | R753     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R521     | ERJ6GEYJ151  | M.RESISTOR CH 1/10W 150   | 1   |         | R754     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R522     | VRD0034E26A  | M.RESISTOR CH 1/10W 182   | 1   |         | R755     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R523     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         | R756     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R524     | VRD0034E89A  | M.RESISTOR CH 1/10W 825   | 1   |         | R760, 61 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R525     | VRD0034E21B  | M.RESISTOR CH 1/10W 1.62K | 1   |         | R762     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R526, 27 | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 2   |         | R763     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R528     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 1   |         | R764-67  | ERJ6GEYJ621 | M.RESISTOR CH 1/10W 620  | 4   |         |
| R529     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         | R768     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R530     | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680   | 1   |         | R769     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R531, 32 | ERJ6GEYJ273  | M.RESISTOR CH 1/10W 27K   | 2   |         | R770     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R533, 34 | ERJ6GEYJ183  | M.RESISTOR CH 1/10W 18K   | 2   |         | R771     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R535, 36 | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220   | 2   |         | R772     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R537     | ERJ6GEYJ243  | M.RESISTOR CH 1/10W 24K   | 1   |         | R773     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R549     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         | R774     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R550     | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R775     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R551     | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K   | 1   |         | R776     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R552     | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R777     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R553     | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470   | 1   |         | R778     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R554     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         | R779, 80 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R555     | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R781     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R556     | ERJ6GEYJ122  | M.RESISTOR CH 1/10W 1.2K  | 1   |         | R782     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R557     | ERD82TJ152   | C.RESISTOR 1/4W 1.5K      | 1   |         | R783     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R558     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         | R784     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R559     | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R785     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R560     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         | R786     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R561-63  | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K   | 3   |         | R787     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R564     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R788, 89 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R565     | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K   | 1   |         | R790-97  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 8   |         |
| R566     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R798, 99 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R567     | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K   | 1   |         | R800     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R570     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 1   |         | R801, 02 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R624-26  | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K   | 3   |         | R803     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R627     | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R804, 05 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         |
| R628     | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K   | 1   |         | R806, 07 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R629     | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R808     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R630, 31 | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 2   |         | R809     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R633     | ERJ6GEYJ331  | M.RESISTOR CH 1/10W 330   | 1   |         | R810, 11 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R636     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         | R812     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R637     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         | R813, 14 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R638     | ERJ6GEYJ0R00 | M.RESISTOR CH 1/10W 0     | 1   |         | R815, 16 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R639, 40 | ERD82TJ331   | C.RESISTOR 1/4W 330       | 2   |         | R817-28  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 12  |         |
| R643     | ERD82TJ331   | C.RESISTOR 1/4W 330       | 1   |         | R829     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R701     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         | R830, 31 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R702     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         | R832, 33 | ERJ6GEYJ150 | M.RESISTOR CH 1/10W 15   | 2   |         |
| R703     | ERJ6GEYJ821  | M.RESISTOR CH 1/10W 820   | 1   |         | R834, 35 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R704     | ERJ6GEYJ0R00 | M.RESISTOR CH 1/10W 0     | 1   |         | R836     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R705     | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R837     | ERD82TJ222  | C.RESISTOR 1/4W 2.2K     | 1   |         |
| R712     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         | R838-40  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R723, 24 | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 2   |         | R841     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R725     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         | R842     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R726     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         | R843, 44 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R727     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 470   | 1   |         | R845     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R728, 29 | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 2   |         | R846, 47 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         |
| R730     | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470   | 1   |         | R848, 49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R731     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R850     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R732, 33 | ERJ6GEYJ391  | M.RESISTOR CH 1/10W 390   | 2   |         | R851     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R734     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R852     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R735     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         | R853     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R736     | ERJ6GEYJ271  | M.RESISTOR CH 1/10W 270   | 1   |         | R854     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R737     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         | R855     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R738     | ERJ6GEYJ821  | M.RESISTOR CH 1/10W 820   | 1   |         | R856, 57 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R739     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         | R858     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R740     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R859     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R741     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         | R860     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R742     | ERJ6GEYJ331  | M.RESISTOR CH 1/10W 330   | 1   |         | R861     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |

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| Ref.No.   | Part No.     | Part Name & Description   | Pcs | Remarks | Ref.No.   | Part No.            | Part Name & Description | Pcs  | Remarks |
|-----------|--------------|---------------------------|-----|---------|-----------|---------------------|-------------------------|------|---------|
| R862      | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K   | 1   |         |           |                     |                         |      |         |
| R863      | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         |           |                     |                         |      |         |
| R864      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         |           |                     |                         |      |         |
| R865      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K   | 1   |         | VL301     | EIR7QF016B          | COIL                    | 1    |         |
| R866      | ERJ6GEYJ683  | M.RESISTOR CH 1/10W 68K   | 1   |         | VL701     | EIR7QF016B          | COIL                    | 1    |         |
| R867      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K   | 1   |         | VL702     | EIR7QF015B          | COIL                    | 1    |         |
| R869      | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470   | 1   |         |           |                     |                         |      |         |
| R871      | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220   | 1   |         |           |                     |                         |      |         |
| R872      | ERJ6GEYJ392  | M.RESISTOR CH 1/10W 3.9K  | 1   |         |           |                     |                         |      |         |
| R873      | VRB0034E27B  | M.RESISTOR CH 1/10W 1.87K | 1   |         | VR301     | VRV0109B501         | V.RESISTOR              | 500  | 1       |
| R874      | VRB0034E751  | M.RESISTOR CH 1/10W 750   | 1   |         | VR302     | VRV0109B102         | V.RESISTOR              | 1K   | 1       |
| R875      | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         | VR303     | VRV0109B501         | V.RESISTOR              | 500  | 1       |
| R876      | ERJ6GEYJ152  | M.RESISTOR CH 2/10W 1.5K  | 1   |         | VR304     | VRV0109B102         | V.RESISTOR              | 1K   | 1       |
| R877      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         | VR309     | VRV0109B101         | V.RESISTOR              | 100  | 1       |
| R878      | ERJ6GEYJ301  | M.RESISTOR CH 1/10W 300   | 1   |         | VR310     | VRV0109B502         | V.RESISTOR              | 5K   | 1       |
| R879      | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470   | 1   |         | VR311     | VRV0109B501         | V.RESISTOR              | 500  | 1       |
| R880      | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         | VR312     | VRV0064B104         | V.RESISTOR              | 500K | 1       |
| R881      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 1   |         | VR315,16  | VRV0064B502         | V.RESISTOR              | 5K   | 2       |
| R882      | ERJ6GEYJ151  | M.RESISTOR CH 1/10W 150   | 1   |         | VR317     | VRV0109B501         | V.RESISTOR              | 500  | 1       |
| R883      | VRB0034E26A  | M.RESISTOR CH 1/10W 182   | 1   |         | VR318     | VRV0109B203         | V.RESISTOR              | 20K  | 1       |
| R884      | ERJ6GEYJ331  | M.RESISTOR CH 1/10W 330   | 1   |         | VR319,20  | VRV0109B102         | V.RESISTOR              | 1K   | 2       |
| R885      | VRB0034B99A  | M.RESISTOR CH 1/10W 825   | 1   |         | VR321     | VRV0109B203         | V.RESISTOR              | 20K  | 1       |
| R886,87   | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 2   |         | VR322     | VRV0109B102         | V.RESISTOR              | 1K   | 1       |
| R888      | VRB0034E21B  | M.RESISTOR CH 1/10W 1.62K | 1   |         | VR323     | VRV0109B203         | V.RESISTOR              | 20K  | 1       |
| R889      | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680   | 1   |         | VR324     | VRV0109B102         | V.RESISTOR              | 1K   | 1       |
| R890      | ERJ6GEYJ273  | M.RESISTOR CH 1/10W 27K   | 1   |         | VR701,02  | VRV0109B501         | V.RESISTOR              | 500  | 2       |
| R891      | ERJ6GEYJ183  | M.RESISTOR CH 1/10W 18K   | 1   |         | VR709     | VRV0109B501         | V.RESISTOR              | 500  | 1       |
| R892      | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220   | 1   |         | VR712,13  | VRV0064B502         | V.RESISTOR              | 5K   | 2       |
| R893      | ERJ6GEYJ273  | M.RESISTOR CH 1/10W 27K   | 1   |         | VR714     | VRV0109B501         | V.RESISTOR              | 500  | 1       |
| R894      | ERJ6GEYJ183  | M.RESISTOR CH 1/10W 18K   | 1   |         | VR715     | VRV0109B203         | V.RESISTOR              | 20K  | 1       |
| R895      | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220   | 1   |         | VR716,17  | VRV0109B102         | V.RESISTOR              | 1K   | 2       |
| R896      | ERJ6GEYJ243  | M.RESISTOR CH 1/10W 24K   | 1   |         | VR718     | VRV0109B203         | V.RESISTOR              | 20K  | 1       |
| R908      | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         | VR719     | VRV0109B102         | V.RESISTOR              | 1K   | 1       |
| R909      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         | VR720     | VRV0109B203         | V.RESISTOR              | 20K  | 1       |
| R910      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K   | 1   |         | VR721     | VRV0109B102         | V.RESISTOR              | 1K   | 1       |
| R911      | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         |           |                     |                         |      |         |
| R912      | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470   | 1   |         |           |                     |                         |      |         |
| R913      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         |           |                     |                         |      |         |
| R914      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         |           |                     | MISCELLANEOUS           |      |         |
| R915      | ERJ6GEYJ122  | M.RESISTOR CH 1/10W 1.2K  | 1   |         | VWL2143   | CARD PULLER         |                         | 1    |         |
| R916      | ERDS2TJ152   | C.RESISTOR 1/4W 1.5K      | 1   |         | VWL2144   | CARD PULLER         |                         | 1    |         |
| R917      | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         | VWS4174   | PIN                 |                         | 1    |         |
| R964      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 1   |         | VW21547   | BARRIER             |                         | 1    |         |
| R965      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         | VSC3056   | SHIELD CASE         |                         | 1    |         |
| R966-68   | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K   | 3   |         | VXA3966   | P.C.B. SHIELD PLATE |                         | 1    |         |
| R969,70   | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 2   |         | XNG26E    | NUT                 |                         | 4    |         |
| R971      | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K   | 1   |         | XYN3-K6FR | SCREW               |                         | 6    |         |
| R972      | ERJ6GEYJ331  | M.RESISTOR CH 1/10W 330   | 1   |         | XYN26-C12 | SCREW               |                         | 4    |         |
| R974      | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 0     | 1   |         |           |                     |                         |      |         |
| R986      | ERD82TJ331   | C.RESISTOR 1/4W 330       | 1   |         |           |                     |                         |      |         |
|           |              |                           |     |         |           |                     |                         |      |         |
|           |              |                           |     |         |           |                     |                         |      |         |
| SW301,02  | VJF1990      | CONNECTOR                 | 2   |         |           |                     |                         |      |         |
| SW304     | VSS0126      | SWITCH                    | 1   |         |           |                     |                         |      |         |
| SW701,02  | VJF1990      | CONNECTOR                 | 2   |         |           |                     |                         |      |         |
| SW704     | VSS0126      | SWITCH                    | 1   |         |           |                     |                         |      |         |
| SW301S    | VJS1990      | CONNECTOR                 | 1   |         |           |                     |                         |      |         |
| SW302S    | VJS1990      | CONNECTOR                 | 1   |         |           |                     |                         |      |         |
| SW701S    | VJS1990      | CONNECTOR                 | 1   |         |           |                     |                         |      |         |
| SW702S    | VJS1990      | CONNECTOR                 | 1   |         |           |                     |                         |      |         |
|           |              |                           |     |         |           |                     |                         |      |         |
|           |              |                           |     |         |           |                     |                         |      |         |
| TP301,02  | VJR0582      | PACK PIN                  | 2   |         |           |                     |                         |      |         |
| TP307-11  | VJR0582      | PACK PIN                  | 5   |         |           |                     |                         |      |         |
| TP315,16  | VJR0582      | PACK PIN                  | 2   |         |           |                     |                         |      |         |
| TP701-06  | VJR0582      | PACK PIN                  | 8   |         |           |                     |                         |      |         |
| TPG301-03 | VJR0582      | PACK PIN                  | 3   |         |           |                     |                         |      |         |
| TPG701-03 | VJR0582      | PACK PIN                  | 3   |         |           |                     |                         |      |         |
|           |              |                           |     |         |           |                     |                         |      |         |
|           |              |                           |     |         |           |                     |                         |      |         |
| VC301     | BCV12W10X53T | V. CAPACITOR              | 10P | 1       |           |                     |                         |      |         |
| VC701     | BCV12W20X53T | V. CAPACITOR              | 20P | 1       |           |                     |                         |      |         |
|           |              |                           |     |         |           |                     |                         |      |         |
|           |              |                           |     |         |           |                     |                         |      |         |

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| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks     | Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|-------------|---------|--------------|--------------------------|-----|---------|
|         | VER63098D    | P.C. BOARD W/COMPONENT   |     | FOR AU-63-P | C408,09 | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 2   |         |
|         |              | W3 MOD & DEMOD           |     |             | C410    | ECEA1AU71    | E.CAPACITOR 10V 470U     | 1   |         |
|         |              |                          |     |             | C411    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |             | C412    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
|         |              |                          |     |             | C413    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              |                          |     |             | C414    | ECUM1H470JCN | P.CAPACITOR 50V 47P      | 1   |         |
|         |              |                          |     |             | C415    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         |
|         |              |                          |     |             | C416    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         |
|         |              |                          |     |             | C417,18 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
|         |              |                          |     |             | C419    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
|         |              |                          |     |             | C420    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
|         |              |                          |     |             | C421    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
|         |              |                          |     |             | C422    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
|         |              |                          |     |             | C423    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              |                          |     |             | C424    | ECEA1CU100   | E.CAPACITOR 16V 10U      | 1   |         |
|         |              |                          |     |             | C425    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
|         |              |                          |     |             | C426    | VCM0044      | M.CAPACITOR 130P         | 1   |         |
|         |              |                          |     |             | C427    | VCM0023      | M.CAPACITOR 379P         | 1   |         |
|         |              |                          |     |             | C428    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
|         |              |                          |     |             | C432    | ECEA1AU221   | E.CAPACITOR 10V 220U     | 1   |         |
|         |              |                          |     |             | C433    | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         |
|         |              |                          |     |             | C434    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
|         |              |                          |     |             | C435    | ECUM1H020CCN | C.CAPACITOR CH 50V 2P    | 1   |         |
|         |              |                          |     |             | C436,37 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
|         |              |                          |     |             | C438    | VCM0023      | M.CAPACITOR 379P         | 1   |         |
|         |              |                          |     |             | C439    | VCM0057      | M.CAPACITOR 169P         | 1   |         |
|         |              |                          |     |             | C440    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
|         |              |                          |     |             | C442,43 | ECEA1CU221   | E.CAPACITOR 16V 220U     | 2   |         |
|         |              |                          |     |             | C444,45 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |             | C450    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              |                          |     |             | C453    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |             | C467    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |             | C468    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |             | C469    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
|         |              |                          |     |             | C701,02 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |             | C703    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              |                          |     |             | C704,05 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |             | C714    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |             | C725    | ECCF1H180JC  | C.CAPACITOR 50V 18P      | 1   |         |
|         |              |                          |     |             | C726    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |             | C727    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |             | C728    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
|         |              |                          |     |             | C729    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
|         |              |                          |     |             | C730,31 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |             | C732    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
|         |              |                          |     |             | C733    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              |                          |     |             | C734    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
|         |              |                          |     |             | C735    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              |                          |     |             | C736    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |             | C737    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
|         |              |                          |     |             | C738    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |             | C744    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |             | C745    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |             | C746    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |             | C747    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              |                          |     |             | C749    | ECUM1H561JCN | C.CAPACITOR CH 50V 560P  | 1   |         |
|         |              |                          |     |             | C750    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
|         |              |                          |     |             | C751    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
|         |              |                          |     |             | C752    | ECUM1H561JCN | C.CAPACITOR CH 50V 560P  | 1   |         |
|         |              |                          |     |             | C753    | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 1   |         |
|         |              |                          |     |             | C754    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         |
|         |              |                          |     |             | C755    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
|         |              |                          |     |             | C756    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
|         |              |                          |     |             | C757    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
|         |              |                          |     |             | C758    | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         |
|         |              |                          |     |             | C759    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |             | C760    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
|         |              |                          |     |             | C761    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
|         |              |                          |     |             | C762    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |             | C763    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
|         |              |                          |     |             | C764    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
|         |              |                          |     |             | C765,66 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |             | C767    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              |                          |     |             | C768,69 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |             | C770    | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |         |
| C62     | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |             |         |              |                          |     |         |
| C63     | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |             |         |              |                          |     |         |
| C64     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |             |         |              |                          |     |         |
| C65     | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |             |         |              |                          |     |         |
| C66     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |             |         |              |                          |     |         |
| C67,68  | ECEA1CU101   | E.CAPACITOR 16V 100U     | 2   |             |         |              |                          |     |         |
| C69,70  | ECEA1AU101   | E.CAPACITOR 10V 100U     | 2   |             |         |              |                          |     |         |
| C71     | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |             |         |              |                          |     |         |
| C72     | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |             |         |              |                          |     |         |
| C302    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C303    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |             |         |              |                          |     |         |
| C304    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C306    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |             |         |              |                          |     |         |
| C307    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |             |         |              |                          |     |         |
| C308,09 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |             |         |              |                          |     |         |
| C310    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |             |         |              |                          |     |         |
| C311    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C316    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |             |         |              |                          |     |         |
| C322    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |             |         |              |                          |     |         |
| C325    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |             |         |              |                          |     |         |
| C342    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C343    | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 1   |             |         |              |                          |     |         |
| C344    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |             |         |              |                          |     |         |
| C345    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |             |         |              |                          |     |         |
| C346    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C347,48 | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |             |         |              |                          |     |         |
| C349    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C350    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |             |         |              |                          |     |         |
| C351    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |             |         |              |                          |     |         |
| C352    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C353    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |             |         |              |                          |     |         |
| C354,55 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |             |         |              |                          |     |         |
| C356    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |             |         |              |                          |     |         |
| C357    | ECEA1HU2R2   | E.CAPACITOR 50V 2.2U     | 1   |             |         |              |                          |     |         |
| C358    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |             |         |              |                          |     |         |
| C359    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C360    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |             |         |              |                          |     |         |
| C363    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |             |         |              |                          |     |         |
| C373    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |             |         |              |                          |     |         |
| C374    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C375    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |             |         |              |                          |     |         |
| C376    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C380    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |             |         |              |                          |     |         |
| C381    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C382    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |             |         |              |                          |     |         |
| C383    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |             |         |              |                          |     |         |
| C384    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C386    | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |             |         |              |                          |     |         |
| C387    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |             |         |              |                          |     |         |
| C388    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |             |         |              |                          |     |         |
| C389    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C390    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |             |         |              |                          |     |         |
| C391    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |             |         |              |                          |     |         |
| C392    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C393    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |             |         |              |                          |     |         |
| C394    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C395    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |             |         |              |                          |     |         |
| C396,97 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |             |         |              |                          |     |         |
| C398    | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |             |         |              |                          |     |         |
| C399    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |             |         |              |                          |     |         |
| C400    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |             |         |              |                          |     |         |
| C401-03 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |             |         |              |                          |     |         |
| C404    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |             |         |              |                          |     |         |
| C405-07 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 3   |             |         |              |                          |     |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| Q355    | 2SA1022     | TRANSISTOR CHIP          | 1   | (B,C)   | R360,61 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| Q356-61 | UN2113      | TRANSISTOR-RESISTOR      | 6   |         | R362    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| Q376    | 2SA1462     | TRANSISTOR               | 1   |         | R363    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q377    | 2SA1226     | TRANSISTOR               | 1   |         | R364    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| Q378    | 2SB709      | TRANSISTOR CHIP          | 1   | (Q,R)   | R365    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| Q379    | 2SC2480     | TRANSISTOR               | 1   |         | R366    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q382-64 | 2SC3757     | TRANSISTOR               | 3   | (Q,R)   | R367    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| Q385    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   | R368    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| Q701,02 | 2SA1022     | TRANSISTOR CHIP          | 2   | (B,C)   | R369    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q710,11 | 2SC2295     | TRANSISTOR CHIP          | 2   | (B,C)   | R370    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q712    | 2SA1022     | TRANSISTOR CHIP          | 1   | (B,C)   | R371    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| Q713    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   | R372    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q714,15 | 2SA1022     | TRANSISTOR CHIP          | 2   | (B,C)   | R373    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| Q716    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   | R374    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| Q717    | 2SA1022     | TRANSISTOR CHIP          | 1   | (B,C)   | R375    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q718    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   | R386    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q719,20 | 2SA1022     | TRANSISTOR CHIP          | 2   | (B,C)   | R387,88 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| Q721    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   | R389    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q722    | 2SA1022     | TRANSISTOR CHIP          | 1   | (B,C)   | R390    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| Q723-30 | 2SC2295     | TRANSISTOR CHIP          | 6   | (B,C)   | R391    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| Q731    | UN2213      | TRANSISTOR-RESISTOR      | 1   |         | R392    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| Q732    | 2SA1462     | TRANSISTOR               | 1   |         | R393    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| Q733    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   | R397,98 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| Q734    | 2SA1022     | TRANSISTOR CHIP          | 1   | (B,C)   | R399    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| Q735    | 2SC2480     | TRANSISTOR               | 1   |         | R400    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q736    | 2SA1462     | TRANSISTOR               | 1   |         | R401-04 | ERJ6GEYJ621 | M.RESISTOR CH 1/10W 620  | 4   |         |
| Q740    | 2SK374      | TRANSISTOR               | 1   |         | R405    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q741    | 2SC3757     | TRANSISTOR               | 1   | (Q,R)   | R406    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| Q742    | 2SA1226     | TRANSISTOR               | 1   |         | R407    | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 1   |         |
| Q743    | 2SD501      | TRANSISTOR CHIP          | 1   | (Q,R)   | R409    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q754    | 2SA1462     | TRANSISTOR               | 1   |         | R410    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q755    | 2SA1226     | TRANSISTOR               | 1   |         | R411    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| Q756    | 2SB709      | TRANSISTOR CHIP          | 1   | (Q,R)   | R412    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q757    | 2SC2480     | TRANSISTOR               | 1   |         | R413    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q758-60 | 2SC3757     | TRANSISTOR               | 3   | (Q,R)   | R414    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
|         |             |                          |     |         | R415    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
|         |             |                          |     |         | R416,17 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
|         |             |                          |     |         | R418    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
|         |             | RESISTORS                |     |         | R419    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R20     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R420    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R91     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R421    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R101    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R422    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R301    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R423    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R302    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R424    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R303    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R425,26 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R304    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R427-34 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 8   |         |
| R305    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R435,36 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R306    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R437    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R307    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R438,39 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R308    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R440    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R309    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R441,42 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R310    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R443,44 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R332    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R445    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R333,34 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         | R446    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R335,36 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R447,48 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R337,38 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R449    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R339,40 | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 2   |         | R450,51 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R341    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R452,53 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R342    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         | R454-65 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 12  |         |
| R343    | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         | R466    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R344    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R467,68 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R345    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R469,70 | ERJ6GEYJ150 | M.RESISTOR CH 1/10W 15   | 2   |         |
| R346    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R471,72 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R347    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R473    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R348    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R474    | ERDS2TJ222  | C.RESISTOR 1/4W 2.2K     | 1   |         |
| R349    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R475    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R350,51 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         | R476    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R352    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R478    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R353    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R479    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R354    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R480,81 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R355    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R482    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R356    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R483,84 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         |
| R357    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R485,86 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R358    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R487    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R359    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R488    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |

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| Ref.No. | Part No.    | Part Name & Description   | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|---------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| R489    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R705    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R490    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R711,12 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R491    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 1   |         | R723,24 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R492    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         | R725    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R493    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R726    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R494,95 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         | R727    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R496    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R728,29 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R497    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R730    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R498    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R731    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R499    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R732,33 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R500    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R734    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R501    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R735    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R502    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R736    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R503    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         | R737    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R504    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         | R738    | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R505,06 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 2   |         | R739    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R507    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R740    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R509    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R741    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R510    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R742    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R511    | VRE0034E278 | M.RESISTOR CH 1/10W 1.87K | 1   |         | R743    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R512    | VRE0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         | R744    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R513    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R745,46 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R514    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R747    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R515    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         | R748    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R516    | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 1   |         | R749    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R517    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0     | 1   |         | R750    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R518    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R751    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R519    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R752    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R520    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R753    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R521    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         | R754    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R522    | VRE0034E26A | M.RESISTOR CH 1/10W 182   | 1   |         | R755    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R523    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R756    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R524    | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | R750,61 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R525    | VRE0034E21B | M.RESISTOR CH 1/10W 1.62K | 1   |         | R762    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R526,27 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | R763    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R528    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R764-67 | ERJ6GEYJ621 | M.RESISTOR CH 1/10W 620  | 4   |         |
| R529    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R768    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R530    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         | R769    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R531,32 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 2   |         | R770    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R533,34 | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 2   |         | R771    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R535,36 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 2   |         | R772    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R537    | ERJ6GEYJ243 | M.RESISTOR CH 1/10W 24K   | 1   |         | R773    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R549    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R774    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R550    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R775    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R551    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         | R776    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R552    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R777    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R553    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R778    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R554    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R779,80 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R555    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R781    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R556    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K  | 1   |         | R782    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R557    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R783    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R558    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R784    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R559    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R785    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R560    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R786    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R561-63 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 3   |         | R787    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R564    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R788,89 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R565    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R790-97 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 8   |         |
| R566    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R798,99 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R567    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R800    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R620    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R801,02 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R624-26 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 3   |         | R803    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R627    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R804,05 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         |
| R628    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R806,07 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R629    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R808    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R630,31 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         | R809    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R633    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | R810,11 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R636    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R812    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R637    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R813,14 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R638    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0     | 1   |         | R815,16 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R639,40 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 2   |         | R817-20 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 12  |         |
| R643    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | R829    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R701    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R830,31 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R702    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R832,33 | ERJ6GEYJ150 | M.RESISTOR CH 1/10W 15   | 2   |         |
| R703    | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820   | 1   |         | R834,35 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R704    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0     | 1   |         | R836    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.



| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks        | Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|----------------|---------|--------------|--------------------------|-----|---------|
|         | VEP83098E    | P.C. BOARD W/COMPONENT   |     | FOR AU-65-E.B. | C205,06 | ECUM1E104ZEN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
|         |              | W3 MOD & DEMOD           |     |                | C207    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |         |
|         | VEP80667A    | P.C. BOARD W/COMPONENT   |     | ON VEP83098E   | C208    | VCM0028      | V.CAPACITOR              | 1   |         |
|         |              | W3 SUB                   |     |                | C209    | VCM0027      | V.CAPACITOR              | 1   |         |
|         |              |                          |     |                | C210-12 | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 3   |         |
|         |              |                          |     |                | C215    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         |
|         |              |                          |     |                | C216    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
|         |              |                          |     |                | C217    | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |                | C218,19 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
|         |              |                          |     |                | C220,21 | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |                | C222    | ECEA1HUR47   | E.CAPACITOR 50V 0.47U    | 1   |         |
|         |              |                          |     |                | C223    | ECUM1E104ZEN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |                | C224    | ECUM1H271JCN | C.CAPACITOR CH 50V 270P  | 1   |         |
|         |              |                          |     |                | C225    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
|         |              |                          |     |                | C226    | VCM0023      | M.CAPACITOR 379P         | 1   |         |
|         |              |                          |     |                | C227    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |                | C228    | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |                | C229    | ECEA1AU221   | E.CAPACITOR 10V 220U     | 1   |         |
|         |              |                          |     |                | C230    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |                | C231    | ECUM1H220JUN | C.CAPACITOR CH 50V 22P   | 1   |         |
|         |              |                          |     |                | C232    | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |                | C233    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
|         |              |                          |     |                | C234    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
|         |              |                          |     |                | C235    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
|         |              |                          |     |                | C236    | ECUM1H060DCN | C.CAPACITOR CH 50V 6P    | 1   |         |
|         |              |                          |     |                | C237    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
|         |              |                          |     |                | C238    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         |
|         |              |                          |     |                | C239    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
|         |              |                          |     |                | C240    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
|         |              |                          |     |                | C241    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
|         |              |                          |     |                | C242    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
|         |              |                          |     |                | C243    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |                | C244    | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |                | C245    | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
|         |              |                          |     |                | C246-48 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 3   |         |
|         |              |                          |     |                | C249    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
|         |              |                          |     |                | C250    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
|         |              |                          |     |                | C252,53 | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |                | C254    | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
|         |              |                          |     |                | C255    | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |                | C256,57 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
|         |              |                          |     |                | C258    | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 1   |         |
|         |              |                          |     |                | C259    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
|         |              |                          |     |                | C261    | ECOF1H270JC  | C.CAPACITOR 50V 27P      | 1   |         |
|         |              |                          |     |                | C301,02 | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |                | C303    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
|         |              |                          |     |                | C304,05 | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |                | C306    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
|         |              |                          |     |                | C307    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              |                          |     |                | C308,09 | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |                | C310    | ECEA1A0101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              |                          |     |                | C311    | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |                | C316    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |                | C322    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |                | C325    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |                | C326    | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |                | C327    | ECUM1E104ZEN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |                | C328,29 | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |                | C340    | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |                | C341    | ECEA1CN100S  | E.CAPACITOR 16V 10U      | 1   |         |
|         |              |                          |     |                | C342    | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |                | C343    | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |         |
|         |              |                          |     |                | C344    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
|         |              |                          |     |                | C345    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
|         |              |                          |     |                | C346    | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |                | C347,48 | ECEA1AU101   | E.CAPACITOR 10V 100U     | 2   |         |
|         |              |                          |     |                | C349    | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |                | C350    | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
|         |              |                          |     |                | C351    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
|         |              |                          |     |                | C352    | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |                | C353    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
|         |              |                          |     |                | C354,55 | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |                | C356    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |                | C357    | ECEA1HU2R2   | E.CAPACITOR 50V 2.2U     | 1   |         |
|         |              |                          |     |                | C358    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C1,C2   | ECEA1CU101   | E.CAPACITOR 16V 100U     | 2   |                |         |              |                          |     |         |
| C1      | ECUM1H080DCN | C.CAPACITOR CH 50V 8P    | 1   | FOR VEP83098E  |         |              |                          |     |         |
| C2      | ECUM1H20JCN  | C.CAPACITOR CH 50V 52P   | 1   | FOR VEP83098E  |         |              |                          |     |         |
| C3      | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C4      | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |                |         |              |                          |     |         |
| C5      | ECUM1H020CCN | C.CAPACITOR CH 50V 2P    | 1   |                |         |              |                          |     |         |
| C6      | ECUM1H080DCN | C.CAPACITOR CH 50V 80P   | 1   |                |         |              |                          |     |         |
| C7      | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C10,11  | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |                |         |              |                          |     |         |
| C12,13  | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 2   |                |         |              |                          |     |         |
| C14     | ECEA0JU470   | E.CAPACITOR 6.3V 47U     | 1   |                |         |              |                          |     |         |
| C15     | VCM0028      | V.CAPACITOR              | 1   |                |         |              |                          |     |         |
| C16     | ECEA0JU470   | E.CAPACITOR 6.3V 47U     | 1   |                |         |              |                          |     |         |
| C17     | VCM0027      | V.CAPACITOR              | 1   |                |         |              |                          |     |         |
| C18-20  | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 3   |                |         |              |                          |     |         |
| C21     | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |                |         |              |                          |     |         |
| C22     | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |                |         |              |                          |     |         |
| C23     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |                |         |              |                          |     |         |
| C24     | ECUM1H104KEN | C.CAPACITOR CH 50V 0.1U  | 1   |                |         |              |                          |     |         |
| C25     | ECUM1C104KEN | C.CAPACITOR CH 16V 0.1U  | 1   |                |         |              |                          |     |         |
| C26     | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |                |         |              |                          |     |         |
| C27     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C28     | ECUM1H472KEN | C.CAPACITOR CH 50V 4700P | 1   |                |         |              |                          |     |         |
| C29,30  | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |                |         |              |                          |     |         |
| C31     | ECEA1HUR47   | E.CAPACITOR 50V 0.47U    | 1   |                |         |              |                          |     |         |
| C32     | VCM0047      | M.CAPACITOR              | 1   |                |         |              |                          |     |         |
| C33     | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |                |         |              |                          |     |         |
| C34     | ECEA1AU221   | E.CAPACITOR 10V 220U     | 1   |                |         |              |                          |     |         |
| C35     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C36     | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |                |         |              |                          |     |         |
| C37     | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |                |         |              |                          |     |         |
| C38     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C39     | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 1   |                |         |              |                          |     |         |
| C40     | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |                |         |              |                          |     |         |
| C42     | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |                |         |              |                          |     |         |
| C43,44  | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 2   |                |         |              |                          |     |         |
| C45,46  | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |                |         |              |                          |     |         |
| C47     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |                |         |              |                          |     |         |
| C48     | ECUM1H103KEN | C.CAPACITOR CH 50V 0.01U | 1   |                |         |              |                          |     |         |
| C49     | ECUM1H332KEN | C.CAPACITOR CH 50V 3300P | 1   |                |         |              |                          |     |         |
| C50,51  | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 2   |                |         |              |                          |     |         |
| C52     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C54     | ECUM1H471JCN | C.CAPACITOR CH 50V 470P  | 1   |                |         |              |                          |     |         |
| C55     | ECOF1H270JC  | C.CAPACITOR 50V 27P      | 1   |                |         |              |                          |     |         |
| C56     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C57     | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |                |         |              |                          |     |         |
| C60     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C61     | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |                |         |              |                          |     |         |
| C62     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C63     | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |                |         |              |                          |     |         |
| C64     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C65     | ECOF1CE106   | T.CAPACITOR 16V 10U      | 1   |                |         |              |                          |     |         |
| C66     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C67     | ECOF1CE106   | T.CAPACITOR 16V 10U      | 1   |                |         |              |                          |     |         |
| C68     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C69,70  | ECOF1CE106   | T.CAPACITOR 16V 10U      | 1   |                |         |              |                          |     |         |
| C71     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |                |         |              |                          |     |         |
| C72     | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |                |         |              |                          |     |         |
| C73,74  | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |                |         |              |                          |     |         |
| C201,02 | ECEA1CU101   | E.CAPACITOR 16V 100U     | 2   |                |         |              |                          |     |         |
| C203    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |                |         |              |                          |     |         |
| C204    | ECUM1H020CCN | C.CAPACITOR CH 50V 2P    | 1   |                |         |              |                          |     |         |

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| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|---------|---------|--------------|--------------------------|-----|---------|
| C377,78 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C725    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         |
| C380    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C726    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C381    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C727    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C382    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C728    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C383    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C729    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C386    | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         | C730,31 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C387    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         | C732    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C389    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         | C733    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C391    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         | C734    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C392    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C735    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C393    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C736    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C394    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C737    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C395    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C738    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C396,97 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C740-42 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         |
| C398    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         | C744    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C399    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C745    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C400    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C746    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C401-03 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         | C747    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C404    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C749    | ECUM1H561JCN | C.CAPACITOR CH 50V 560P  | 1   |         |
| C405-07 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 3   |         | C750    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C408,09 | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 2   |         | C751    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C410    | ECEA1AU471   | E.CAPACITOR 10V 470U     | 1   |         | C752    | ECUM1H561JCN | C.CAPACITOR CH 50V 560P  | 1   |         |
| C411    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C753    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
| C412    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         | C754    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         |
| C413    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C755    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
| C414    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         | C756    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C415    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         | C757    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
| C416    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         | C758    | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         |
| C417,18 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         | C759    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C419    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         | C760    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C420    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         | C762    | ECUM1H391JCN | C.CAPACITOR CH 50V 390P  | 1   |         |
| C421    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         | C764    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
| C422    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         | C765,66 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C423    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C767    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C424    | ECEA1CU100   | E.CAPACITOR 16V 10U      | 1   |         | C768,69 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C425    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         | C770    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C426    | VCM0044      | M.CAPACITOR 130P         | 1   |         | C771    | ECUM1H681JCN | C.CAPACITOR CH 50V 680P  | 1   |         |
| C427    | VCM0023      | M.CAPACITOR 379P         | 1   |         | C772    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C428    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         | C773-75 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         |
| C429    | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 1   |         | C776    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C430    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         | C777    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C431    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         | C778,79 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C432    | ECEA0JU221   | E.CAPACITOR 6.3V 220U    | 1   |         | C780,81 | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 1   |         |
| C433    | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         | C782    | ECEA1AU471   | E.CAPACITOR 10V 470U     | 1   |         |
| C434    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         | C783    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C435    | ECUM1H020CCN | C.CAPACITOR CH 50V 2P    | 1   |         | C784    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C436,37 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C785    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C440    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         | C786    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C441    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C787    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C442,43 | ECEA1CU221   | E.CAPACITOR 16V 220U     | 2   |         | C788    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C444,45 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C789,90 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C446,47 | VCM0027      | V.CAPACITOR              | 2   |         | C791    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C448    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C792    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C449    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C793    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C450    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C794    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C451    | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |         | C796    | ECEA1CU100   | E.CAPACITOR 16V 10U      | 1   |         |
| C453    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C797    | VCM0023      | M.CAPACITOR 379P         | 1   |         |
| C454    | ECUM1H620JCN | C.CAPACITOR CH 50V 82P   | 1   |         | C799    | ECEA0JU221   | E.CAPACITOR 6.3V 220U    | 1   |         |
| C455,56 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C800    | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         |
| C457,58 | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C801    | ECUM1H020CCN | C.CAPACITOR CH 50V 2P    | 1   |         |
| C459    | ECUM1H151JCN | C.CAPACITOR CH 50V 150P  | 1   |         | C802    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C460    | ECUM1H471JCN | C.CAPACITOR CH 50V 470P  | 1   |         | C803,04 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C461,62 | ECEA1CU100   | E.CAPACITOR 16V 10U      | 2   |         | C805    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
| C463    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         | C808    | ECEA1CU221   | E.CAPACITOR 16V 220U     | 1   |         |
| C464    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         | C810    | ECEA1CU221   | E.CAPACITOR 16V 220U     | 1   |         |
| C465,66 | ECEA1AU101   | E.CAPACITOR 10V 100U     | 2   |         | C811,12 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C467    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C813,14 | VCM0027      | V.CAPACITOR              | 2   |         |
| C468    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C815    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C469    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         | C816    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C470    | BOCF1H330JC  | C.CAPACITOR 50V 33P      | 1   |         | C817    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C471    | BOCF1H060DC  | C.CAPACITOR 50V 6P       | 1   |         | C818    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C701,02 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C819    | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |         |
| C703    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C821    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C704,05 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C822    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C706    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         | C823,24 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |

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| Ref. No. | Part No.    | Part Name & Description   | Pcs | Remarks |
|----------|-------------|---------------------------|-----|---------|
| R34,35   | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 2   |         |
| R36      | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R37      | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 1   |         |
| R38      | VRE0034E43A | M.RESISTOR CH 1/10W       | 1   |         |
| R39      | VRE0034E82A | M.RESISTOR CH 1/10W       | 1   |         |
| R40      | ERJ6GEYJ621 | M.RESISTOR CH 1/10W 820   | 1   |         |
| R41      | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         |
| R42      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R43      | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         |
| R44      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R45      | VRE0034E26A | M.RESISTOR CH 1/10W 182   | 1   |         |
| R46      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R47      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R48      | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R49      | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180   | 1   |         |
| R50      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R51      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R52      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R53      | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R54      | ERJ6GEYJ225 | M.RESISTOR CH 1/10W 2.2M  | 1   |         |
| R55,56   | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| R57      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R58      | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M    | 1   |         |
| R59      | ERJ6GEYJ225 | M.RESISTOR CH 1/10W 2.2M  | 1   |         |
| R60      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R61      | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         |
| R62      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R63      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R64      | ERJ6GEYJ243 | M.RESISTOR CH 1/10W 24K   | 1   |         |
| R65      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R66      | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M    | 1   |         |
| R67      | VRE0034E27B | M.RESISTOR CH 1/10W 1.87K | 1   |         |
| R68      | ERJ6GEYJ566 | M.RESISTOR CH 1/10W 5.6   | 1   |         |
| R69      | VRE0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         |
| R70      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R71      | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K  | 1   |         |
| R72      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R73,74   | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| R75,76   | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K  | 2   |         |
| R77      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R78      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R79      | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R80      | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| R81      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R82,83   | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         |
| R84,85   | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 2   |         |
| R86,87   | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| R88      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R89      | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R90      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R92      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R93      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R94      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         |
| R95      | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K   | 1   |         |
| R96      | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R97      | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K   | 1   |         |
| R98      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R99      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R102     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R103     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K  | 1   |         |
| R104     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K  | 1   |         |
| R105     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R201     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R202     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R203     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R204,05  | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 2   |         |
| R206     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R207     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| R208     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         |
| R209,10  | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         |
| R211,12  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| R213,14  | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 2   |         |
| R215     | VRE0034E43A | M.RESISTOR CH 1/10W       | 1   |         |
| R216     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 1   |         |
| R217     | VRE0034E82A | M.RESISTOR CH 1/10W       | 1   |         |

| Ref. No. | Part No.    | Part Name & Description   | Pcs | Remarks |
|----------|-------------|---------------------------|-----|---------|
| R218     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R219     | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         |
| R220     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R221     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R222     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R223     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R224     | VRE0034E26A | M.RESISTOR CH 1/10W 182   | 1   |         |
| R225     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R231     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R232     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R233     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R234     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R235,36  | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 2   |         |
| R237,38  | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 2   |         |
| R239,40  | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 2   |         |
| R241     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         |
| R242     | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180   | 1   |         |
| R243     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R244     | ERJ6GEYJ475 | M.RESISTOR CH 1/10W 4.7M  | 1   |         |
| R245     | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180   | 1   |         |
| R246     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R247     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K   | 1   |         |
| R248     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K   | 1   |         |
| R249     | VRE0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         |
| R250     | VRE0034E27B | M.RESISTOR CH 1/10W 1.87K | 1   |         |
| R251     | ERJ6GEYJ566 | M.RESISTOR CH 1/10W 5.6   | 1   |         |
| R252     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R253     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K  | 1   |         |
| R254     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R255,56  | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68    | 2   |         |
| R257,58  | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K  | 2   |         |
| R259     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R260     | ERJ6GEYJ750 | M.RESISTOR CH 1/10W 75    | 1   |         |
| R261     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R262     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R263     | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390   | 1   |         |
| R264     | ERJ6GEYJ240 | M.RESISTOR CH 1/10W       | 1   |         |
| R265     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R266     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R267     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K  | 1   |         |
| R268     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R269,70  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 2   |         |
| R271     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R272     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R273     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R274     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R275     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         |
| R276     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R277     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R278     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K  | 1   |         |
| R279,80  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         |
| R281     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R282,83  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| R284     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R285     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R286     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R287     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R288     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R289     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R290     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R291     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R293     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R301     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R302     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         |
| R303     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R304     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R305     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R306     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         |
| R307     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R308     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R309     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R310     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R322     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R323     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R324     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.

| Ref.No.  | Part No.     | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|--------------------------|-----|---------|----------|--------------|---------------------------|-----|---------|
| R325, 26 | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 2   |         | R466     | ERJ6GEYJ683  | M.RESISTOR CH 1/10W 68K   | 1   |         |
| R327     | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1   |         | R467, 68 | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K   | 2   |         |
| R328     | ERJ6GEYJ105  | M.RESISTOR CH 1/10W 1M   | 1   |         | R469, 70 | ERJ6GEYJ150  | M.RESISTOR CH 1/10W 15    | 2   |         |
| R329     | ERJ6GEYJ224  | M.RESISTOR CH 1/10W 220K | 1   |         | R471, 72 | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 2   |         |
| R330     | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1   |         | R473     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 1   |         |
| R331     | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1   |         | R474     | ERD62TJ222   | C.RESISTOR 1/4W 2.2K      | 1   |         |
| R332     | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1   |         | R475     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R333, 34 | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470  | 2   |         | R477     | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470   | 1   |         |
| R335, 36 | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 2   |         | R478     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R337, 38 | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K | 2   |         | R479     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R339, 40 | ERJ6GEYJ271  | M.RESISTOR CH 1/10W 270  | 2   |         | R480, B1 | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470   | 2   |         |
| R341     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R482     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         |
| R342     | ERJ6GEYJ270  | M.RESISTOR CH 1/10W 270  | 1   |         | R483, 84 | ERJ6GEYJ333  | M.RESISTOR CH 1/10W 33K   | 2   |         |
| R343     | ERJ6GEYJ821  | M.RESISTOR CH 1/10W 820  | 1   |         | R485, 86 | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 2   |         |
| R344     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R487     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R345     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R488     | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220   | 1   |         |
| R346     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1   |         | R489     | ERJ6GEYJ392  | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R347     | ERJ6GEYJ6331 | M.RESISTOR CH 1/10W 330  | 1   |         | R490     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         |
| R348     | ERJ6GEYJ153  | M.RESISTOR CH 1/10W 15K  | 1   |         | R491     | ERJ6GEYJ333  | M.RESISTOR CH 1/10W 33K   | 1   |         |
| R349     | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1   |         | R492     | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470   | 1   |         |
| R350, 51 | ERJ6GEYJ220  | M.RESISTOR CH 1/10W 22   | 1   |         | R493     | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R352     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R494, 95 | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 2   |         |
| R353     | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1   |         | R496     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R354     | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470  | 1   |         | R497     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R355     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1   |         | R498     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 1   |         |
| R356     | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220  | 1   |         | R499     | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R357     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R500     | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R358     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1   |         | R501     | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R359     | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1   |         | R502     | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R360, 61 | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1   |         | R503     | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R362     | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1   |         | R504     | ERJ6GEYJ683  | M.RESISTOR CH 1/10W 68K   | 1   |         |
| R363     | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1   |         | R505, 06 | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K   | 2   |         |
| R364     | ERJ6GEYJ273  | M.RESISTOR CH 1/10W 27K  | 1   |         | R508     | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470   | 1   |         |
| R365     | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1   |         | R509     | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220   | 1   |         |
| R366     | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1   |         | R510     | ERJ6GEYJ392  | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R367     | ERJ6GEYJ104  | M.RESISTOR CH 1/10W 100K | 1   |         | R511     | VRE0034E27B  | M.RESISTOR CH 1/10W 1.87K | 1   |         |
| R368     | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1   |         | R512     | VRE0034E751  | M.RESISTOR CH 1/10W 750   | 1   |         |
| R369     | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1   |         | R513     | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R370     | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1   |         | R514     | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R371     | ERJ6GEYJ682  | M.RESISTOR CH 1/10W 6.8K | 1   |         | R515     | ERJ6GEYJ682  | M.RESISTOR CH 1/10W 6.8K  | 1   |         |
| R394     | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470  | 1   |         | R516     | ERJ6GEYJ301  | M.RESISTOR CH 1/10W 300   | 1   |         |
| R395     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1   |         | R518     | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470   | 1   |         |
| R396     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R519     | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R397     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R520     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 1   |         |
| R398     | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1   |         | R521     | ERJ6GEYJ151  | M.RESISTOR CH 1/10W 150   | 1   |         |
| R399, 00 | ERJ6GEYJ301  | M.RESISTOR CH 1/10W 300  | 1   |         | R522     | VRE0034E26A  | M.RESISTOR CH 1/10W 182   | 1   |         |
| R401     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R523     | ERJ6GEYJ331  | M.RESISTOR CH 1/10W 330   | 1   |         |
| R402     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1   |         | R524     | VRE0034E89A  | M.RESISTOR CH 1/10W 825   | 1   |         |
| R403     | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 1   |         | R525     | ERJ6GEYJ331  | M.RESISTOR CH 1/10W 330   | 1   |         |
| R404     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1   |         | R526, 27 | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 2   |         |
| R405     | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1   |         | R528     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 1   |         |
| R406     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R529     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R407     | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220  | 1   |         | R530     | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680   | 1   |         |
| R408     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R531, 32 | ERJ6GEYJ273  | M.RESISTOR CH 1/10W 27K   | 2   |         |
| R409     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R533, 34 | ERJ6GEYJ183  | M.RESISTOR CH 1/10W 18K   | 2   |         |
| R410     | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1   |         | R535, 36 | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220   | 2   |         |
| R411, 12 | ERJ6GEYJ331  | M.RESISTOR CH 1/10W 330  | 2   |         | R537     | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R413     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R538     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         |
| R414     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R539     | ERJ6GEYJ6331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R415     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R540     | VRE0034E26A  | M.RESISTOR CH 1/10W 182   | 1   |         |
| R426     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R541     | VRE0034E89A  | M.RESISTOR CH 1/10W 825   | 1   |         |
| R427-34  | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 8   |         | R542     | VRE0034E59A  | M.RESISTOR CH 1/10W 413   | 1   |         |
| R435, 36 | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K | 2   |         | R543     | VRE0034E102  | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R437     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1   |         | R544     | ERJ6GEYJ392  | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R438, 39 | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470  | 2   |         | R545     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R440     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R546     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         |
| R441, 42 | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 2   |         | R547     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R443, 44 | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 2   |         | R548     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         |
| R445     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R550     | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R446     | ERJ6GEYJ151  | M.RESISTOR CH 1/10W 150  | 1   |         | R551     | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K   | 1   |         |
| R447, 48 | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K | 2   |         | R552     | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R449     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         | R553     | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470   | 1   |         |
| R450, 51 | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K | 2   |         | R554     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R452, 53 | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 2   |         | R555     | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R454-65  | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 12  |         | R556     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |

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| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R561-63  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         | R712     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R564     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R723, 24 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R565     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R725     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R566     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R726     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R567     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R727     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R568     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R728, 29 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R569, 70 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R730     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R571     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R731     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R572     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R732, 33 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R573, 74 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R734     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R575, 76 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R735     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R577     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R736     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R578     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R737     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R579     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R738     | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R580     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R739     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R581     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R740     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R582     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R741     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R583     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         | R742     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R584     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R743     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R585     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R744     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R586     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R745, 46 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R587, 88 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2   |         | R747     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R589     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R748     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R590     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R749     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R591     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R750     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R592     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R751     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R593     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R752     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R594     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R753     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R595, 96 | ERJ6GEYK475 | M.RESISTOR CH 1/10W 4.7K | 2   |         | R754     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R597     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R755     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R598     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R756     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R599     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R757     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R600     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R758     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R601     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R759     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R602     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R760     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R603, 04 | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 2   |         | R761     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R605, 06 | ERJ6GEYK475 | M.RESISTOR CH 1/10W 4.7K | 2   |         | R762, 63 | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R607     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R764     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R608, 09 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         | R765     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R610     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R766     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R611     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         | R767     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R612     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R768     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R613     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R769     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R614     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R770     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R615     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R771     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R616     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R772     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R617-19  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | R773     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R620     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R774, 75 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R621, 22 | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 2   |         | R776     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R623     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R777     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R624-26  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | R778     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R627     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R789     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R628     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R790-97  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 8   |         |
| R629     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R798, 99 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R630, 31 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         | R800     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R632     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R801, 02 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R633     | ERD52TJ331  | C.RESISTOR 1/4W 330      | 1   |         | R803     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R635, 36 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R804, 05 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         |
| R637     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R806, 07 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R639, 40 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         | R808     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R643     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R809     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R644, 45 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R810, 11 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R646     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R812     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R647, 48 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 2   |         | R813, 14 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R649     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R815, 16 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R650-63  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 4   |         | R817-28  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 12  |         |
| R654, 55 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         | R829     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R656     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R830, 31 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R660     | ERD52TJ331  | C.RESISTOR 1/4W 330      | 1   |         | R832, 33 | ERJ6GEYJ150 | M.RESISTOR CH 1/10W 15   | 2   |         |
| R661     | ERD52TJ472  | C.RESISTOR 1/4W 4.7K     | 1   |         | R834, 35 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R701     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R836     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R702     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R837     | ERD52TJ222  | C.RESISTOR 1/4W 2.2K     | 1   |         |
| R703     | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         | R838-40  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R704     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         | R842     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R705     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R843, 44 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |

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| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks       | Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|---------------|---------|--------------|--------------------------|-----|---------|
|         | VEP83098P    | P.C. BOARD W/COMPONENT   |     | FOR AU-63-E,B | C404    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              | W3 MOD & DEMOD           |     |               | C405-07 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 3   |         |
|         |              |                          |     |               | C408,09 | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 2   |         |
|         |              |                          |     |               | C410    | ECEA1AU471   | E.CAPACITOR 10V 470U     | 1   |         |
|         |              |                          |     |               | C411    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |               | C412    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
|         |              |                          |     |               | C413    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
|         |              |                          |     |               | C414    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
|         |              |                          |     |               | C415    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         |
|         |              |                          |     |               | C416    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         |
|         |              | CAPACITORS               |     |               | C417,18 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C62     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C419    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C63     | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |               | C420    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C64     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C421    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C65     | ECSP1CE106   | T.CAPACITOR 16V 10U      | 1   |               | C422    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C66     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C423    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C67     | ECSP1CE106   | T.CAPACITOR 16V 10U      | 1   |               | C424    | ECEA1CU100   | E.CAPACITOR 16V 10U      | 1   |         |
| C68     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C425    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C69,70  | ECSP1CE106   | T.CAPACITOR 16V 10U      | 2   |               | C426    | WOM0044      | M.CAPACITOR 130P         | 1   |         |
| C71     | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C427    | WOM0023      | M.CAPACITOR 379P         | 1   |         |
| C72     | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |               | C428    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C301,02 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |               | C429    | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 1   |         |
| C303    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |               | C430    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C304,05 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |               | C431    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
| C306    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |               | C432    | ECEA1UJ221   | E.CAPACITOR 6.3V 220U    | 1   |         |
| C307    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |               | C433    | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         |
| C308,09 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |               | C434    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
| C310    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |               | C435    | ECUM1H020CCN | C.CAPACITOR CH 50V 2P    | 1   |         |
| C311    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C436,37 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C316    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C440    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
| C322    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C442,43 | ECEA1CU221   | E.CAPACITOR 16V 220U     | 2   |         |
| C325    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C444,45 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C326    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C446,47 | WOM0027      | V.CAPACITOR              | 2   |         |
| C327    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C448    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C328,29 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |               | C449    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C340    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C450    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C341    | ECEA1CN100S  | E.CAPACITOR 16V 10U      | 1   |               | C451    | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |         |
| C342    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C453    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C343    | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |               | C454    | ECUM1H920JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
| C344    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |               | C455,56 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C345    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |               | C457,58 | ECEA1AU101   | E.CAPACITOR 10V 100U     | 2   |         |
| C346    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C459    | ECUM1H151JCN | C.CAPACITOR CH 50V 150P  | 1   |         |
| C347,48 | ECEA1AU101   | E.CAPACITOR 10V 100U     | 2   |               | C460    | ECUM1H471JCN | C.CAPACITOR CH 50V 470P  | 1   |         |
| C349    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C461,62 | ECEA1CU100   | E.CAPACITOR 16V 10U      | 2   |         |
| C351    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |               | C463    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         |
| C352    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C464    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C353    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |               | C465,66 | ECEA1AU101   | E.CAPACITOR 10V 100U     | 2   |         |
| C354,55 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |               | C467    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C356    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C468    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C357    | ECEA1HU2R2   | E.CAPACITOR 50V 2.2U     | 1   |               | C469    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C358    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |               | C470    | ROCF1H330JC  | C.CAPACITOR 50V 33P      | 1   |         |
| C359    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C471    | ECCT1H060DC  | C.CAPACITOR 50V 6P       | 1   |         |
| C360    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |               | C701,02 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C363    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C703    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C373    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |               | C704,05 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C374    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C706    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C375    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |               | C714    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C376    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C725    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         |
| C380    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C726    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C381    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C727    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C382    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C728    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C383    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |               | C729    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C386    | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |               | C730,31 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C387    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |               | C732    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C389    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |               | C733    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C391    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |               | C734    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C392    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C735    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C393    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |               | C736    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C394    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C737    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C395    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C738    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C396,97 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |               | C744    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C398    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |               | C745    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C399    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |               | C746    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C400    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |               | C747    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C401-03 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |               | C749    | ECUM1H561JCN | C.CAPACITOR CH 50V 560P  | 1   |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.

| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|----------|--------------|-------------------------|-----|---------|
| C750     | ECUMIH331JCN | C. CAPACITOR CH 50V 330P  | 1   |         | D702-05  | MA151K       | DIODE                   | 4   |         |
| C751     | ECUMIH221JCN | C. CAPACITOR CH 50V 220P  | 1   |         | D706     | MA151WK      | DIODE                   | 1   |         |
| C752     | ECUMIH561JCN | C. CAPACITOR CH 50V 560P  | 1   |         | D707     | MA151WA      | DIODE                   | 1   |         |
| C753     | ECUMIH270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |          |              |                         |     |         |
| C754     | ECUMIH181JCN | C. CAPACITOR CH 50V 180P  | 1   |         |          |              |                         |     |         |
| C755     | ECUMIH270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |          |              |                         |     |         |
| C756     | ECUMIH101JCN | C. CAPACITOR CH 50V 100P  | 1   |         | DL301    | VLD0190      | DELAY                   | 1   |         |
| C757     | ECUMIH270JCN | C. CAPACITOR CH 50V 27P   | 1   |         | DL701    | VLD0199      | DELAY                   | 1   |         |
| C758     | ECUMIH050DCN | C. CAPACITOR CH 50V 50P   | 1   |         |          |              |                         |     |         |
| C759     | ECUMIE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |          |              |                         |     |         |
| C760     | ECUMIH100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |          |              |                         |     |         |
| C762     | ECUMIH391JCN | C. CAPACITOR CH 50V 390P  | 1   |         | FL301    | VLP0545      | FILTER                  | 1   |         |
| C764     | ECUMIH560JCN | C. CAPACITOR CH 50V 56P   | 1   |         | FL302    | VLP0656      | FILTER                  | 1   |         |
| C765, 66 | ECUMIH103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | FL303    | VLP0712      | FILTER                  | 1   |         |
| C767     | ECEA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | FL701    | VLP0652      | FILTER                  | 1   |         |
| C768, 69 | ECUMIH103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |          |              |                         |     |         |
| C770     | ECUMIH220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |          |              |                         |     |         |
| C771     | ECUMIH681JCN | C. CAPACITOR CH 50V 680P  | 1   |         | IC10     | AN79M09      | IC                      | 1   |         |
| C772     | ECUMIE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC11, 12 | AN79M05F     | IC                      | 2   |         |
| C773-75  | ECUMIH103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         | IC13     | AN78M05F     | IC                      | 1   |         |
| C776     | ECUMIE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC14     | AN78M05      | IC                      | 1   |         |
| C777     | ECEA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | IC15     | AN78M09      | IC                      | 1   |         |
| C778, 79 | ECUMIE1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | IC301    | AN630BS      | IC                      | 1   |         |
| C780, 81 | ECUMIH390JCN | C. CAPACITOR CH 50V 39P   | 2   |         | IC304    | AN630BS      | IC                      | 1   |         |
| C782     | ECEA1A0471   | E. CAPACITOR 10V 470U     | 1   |         | IC305    | AN608P       | IC                      | 1   |         |
| C783     | ECUMIE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC306    | NJM1496M     | IC                      | 1   |         |
| C784     | ECUMIH221JCN | C. CAPACITOR CH 50V 220P  | 1   |         | IC307    | UPD4053BG    | IC                      | 1   |         |
| C785     | ECEA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | IC309    | RC082BM      | IC                      | 1   |         |
| C786     | ECUMIH121JCN | C. CAPACITOR CH 50V 120P  | 1   |         | IC311-15 | 10116D       | IC                      | 5   |         |
| C787     | ECUMIH100DCN | C. CAPACITOR CH 50V 10P   | 1   |         | IC316    | SN74LS123NS  | IC                      | 1   |         |
| C788     | ECUMIH331JCN | C. CAPACITOR CH 50V 330P  | 1   |         | IC317    | MC74HC00AF   | IC                      | 1   |         |
| C789, 90 | ECUMIE1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | IC319    | NES539D      | IC                      | 1   |         |
| C791     | ECUMIH331JCN | C. CAPACITOR CH 50V 330P  | 1   |         | IC322    | NJM592M8     | IC                      | 1   |         |
| C792     | ECUMIH220JCN | C. CAPACITOR CH 50V 22P   | 1   |         | IC323    | MC74HC4053F  | IC                      | 1   |         |
| C793     | ECUMIH680JCN | C. CAPACITOR CH 50V 68P   | 1   |         | IC324    | RC082BM      | IC                      | 1   |         |
| C794     | ECUMIH330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | IC325    | TC74HC221AF  | IC                      | 1   |         |
| C796     | ECEA1C0100   | E. CAPACITOR 16V 10U      | 1   |         | IC326    | RC082BM      | IC                      | 1   |         |
| C797     | VCMD023      | M. CAPACITOR 379P         | 1   |         | IC701    | AN630BS      | IC                      | 1   |         |
| C799     | ECEN0J0221   | E. CAPACITOR 6.3V 220U    | 1   |         | IC705    | NJM1496M     | IC                      | 1   |         |
| C800     | ECUMIH050DCN | C. CAPACITOR CH 50V 50P   | 1   |         | IC706    | UPD4053BG    | IC                      | 1   |         |
| C801     | ECUMIH020CCN | C. CAPACITOR CH 50V 2P    | 1   |         | IC708-12 | 10116D       | IC                      | 5   |         |
| C802     | ECUMIH330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | IC716    | NES539D      | IC                      | 1   |         |
| C803, 04 | ECUMIE1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | IC719    | NJM592M8     | IC                      | 1   |         |
| C805     | ECUMIH470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | IC720    | MC74HC4053F  | IC                      | 1   |         |
| C808     | ECEA1C0221   | E. CAPACITOR 16V 220U     | 1   |         | IC721    | RC082BM      | IC                      | 1   |         |
| C810     | ECEA1C0221   | E. CAPACITOR 16V 220U     | 1   |         | IC722    | TC74HC221AF  | IC                      | 1   |         |
| C811, 12 | ECUMIH103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |          |              |                         |     |         |
| C813, 14 | VCMD027      | M. CAPACITOR 379P         | 2   |         |          |              |                         |     |         |
| C815     | ECEA1A0101   | E. CAPACITOR 10V 100U     | 1   |         |          |              |                         |     |         |
| C816     | ECUMIE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | L301     | VLQEL05F101K | COIL 100UH              | 1   |         |
| C817     | ECEA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | L302, 03 | VLQEL05S100J | COIL 10UH               | 2   |         |
| C818     | ECUMIH220JCN | C. CAPACITOR CH 50V 22P   | 1   |         | L304     | VLQEL05F101K | COIL 100UH              | 1   |         |
| C819     | ECEA1C0101   | E. CAPACITOR 16V 100U     | 1   |         | L308     | VLQEL05S3R3J | COIL 3.3UH              | 1   |         |
| C821     | ECUMIE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | L309, 10 | VLQEL05F101K | COIL 100UH              | 2   |         |
| C822     | ECUMIH101JCN | C. CAPACITOR CH 50V 100P  | 1   |         | L311     | VLQEL05S330J | COIL 33UH               | 1   |         |
| C823, 24 | ECUMIH103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | L312     | VLQEL05S2R7J | COIL 2.7UH              | 1   |         |
| C825     | ECEA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | L313     | VLQEL05F101K | COIL 100UH              | 1   |         |
| C826     | ECUMIH680JCN | C. CAPACITOR CH 50V 68P   | 1   |         | L314     | VLQEL05S8R2J | COIL 8.2UH              | 1   |         |
| C827     | ECUMIH100DCN | C. CAPACITOR CH 50V 10P   | 1   |         | L316-18  | VLQEL05F101K | COIL 100UH              | 3   |         |
| C828     | ECUMIH221JCN | C. CAPACITOR CH 50V 220P  | 1   |         | L320, 21 | VLQEL05S2R2J | COIL 2.2UH              | 2   |         |
| C829     | ECEA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | L322     | VLQEL05S180J | COIL 18UH               | 1   |         |
| C830, 31 | ECEA1C0100   | E. CAPACITOR 16V 10U      | 2   |         | L323     | VLQEL05F101K | COIL 100UH              | 1   |         |
| C832, 33 | ECEA1A0101   | E. CAPACITOR 10V 100U     | 2   |         | L324     | VLQEL05S1R0J | COIL 1UH                | 1   |         |
| C834     | ECUMIH470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | L325-27  | VLQEL05F101K | COIL 100UH              | 3   |         |
| C835     | ECUMIH680JCN | C. CAPACITOR CH 50V 68P   | 1   |         | L328     | VLQEL05S6R8J | COIL 6.8UH              | 1   |         |
| C836     | ECOF1H330JC  | C. CAPACITOR 50V 33P      | 1   |         | L329     | VLQEL05F101K | COIL 100UH              | 1   |         |
| C837     | ECOF1H0600C  | C. CAPACITOR 50V 6P       | 1   |         | L330     | VLQEL05S3R3J | COIL 3.3UH              | 1   |         |
|          |              |                           |     |         | L333     | VLQEL05F101K | COIL 100UH              | 1   |         |
|          |              |                           |     |         | L334     | VLQEL05S6R8K | COIL 6.8UH              | 1   |         |
| D301     | MA151WK      | DIODE                     | 1   |         | L335     | VLQEL05F101K | COIL 100UH              | 1   |         |
| D303-05  | MA151K       | DIODE                     | 3   |         | L339     | VLQEL05S6R8J | COIL 6.8UH              | 1   |         |
| D306, 07 | MA151WK      | DIODE                     | 2   |         | L340, 41 | VLQEL05F101K | COIL 100UH              | 2   |         |
| D308-10  | MA151WA      | DIODE                     | 3   |         | L342     | VLQEL05S820J | COIL 82UH               | 1   |         |
| D701     | MA151WK      | DIODE                     | 1   |         | L343, 44 | VLQEL05F101K | COIL 100UH              | 2   |         |



| Ref.No. | Part No.     | Part Name & Description | Pcs   | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|--------------|-------------------------|-------|---------|---------|-------------|--------------------------|-----|---------|
| L701    | VLQEL05F101K | COIL                    | 100UH | 1       | Q710,11 | 2SC2295     | TRANSISTOR CHIP          | 2   | (B,C)   |
| L702    | VLQEL05S150J | COIL                    | 15UH  | 1       | Q712    | 2SA1022-C   | TRANSISTOR CHIP          | 1   | (B,C)   |
| L709    | VLQEL05S4R7J | COIL                    | 4.7UH | 1       | Q713    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   |
| L710    | VLQEL05F101K | COIL                    | 100UH | 1       | Q714,15 | 2SA1022-C   | TRANSISTOR CHIP          | 2   | (B,C)   |
| L711    | VLQEL05S560J | COIL                    | 56UH  | 1       | Q716    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   |
| L712    | VLQEL05F101K | COIL                    | 100UH | 1       | Q718    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   |
| L713    | VLQEL05S3R9J | COIL                    | 3.9UH | 1       | Q719    | 2SA1022-C   | TRANSISTOR CHIP          | 1   | (B,C)   |
| L715    | VLQEL05F101K | COIL                    | 100UH | 1       | Q721-30 | 2SC2295     | TRANSISTOR CHIP          | 10  | (B,C)   |
| L716    | VLQEL05S181J | COIL                    | 180UH | 1       | Q731    | UN2213      | TRANSISTOR-RESISTOR      | 1   |         |
| L717    | VLQEL05S680J | COIL                    | 68UH  | 1       | Q732    | 2SA1462     | TRANSISTOR               | 1   |         |
| L718    | VLQEL05S2R2J | COIL                    | 2.2UH | 1       | Q733    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   |
| L719,20 | VLQEL05S6R8J | COIL                    | 6.8UH | 2       | Q734    | 2SA1022-C   | TRANSISTOR CHIP          | 1   | (B,C)   |
| L721    | VLQEL05S4R7J | COIL                    | 4.7UH | 1       | Q735    | 2SC2480     | TRANSISTOR               | 1   |         |
| L722    | VLQEL05S2R7J | COIL                    | 2.7UH | 1       | Q736    | 2SA1462     | TRANSISTOR               | 1   |         |
| L723    | VLQEL05S270J | COIL                    | 27UH  | 1       | Q737    | 2SC2480     | TRANSISTOR               | 1   |         |
| L724    | VLQEL05F101K | COIL                    | 100UH | 1       | Q738,39 | 2SA1226     | TRANSISTOR               | 2   |         |
| L725    | VLQEL05S1R5J | COIL                    | 1.5UH | 1       | Q740    | 2SK374      | TRANSISTOR               | 1   |         |
| L726-28 | VLQEL05F101K | COIL                    | 100UH | 3       | Q741    | 2SC3757     | TRANSISTOR               | 1   | (Q,R)   |
| L729    | VLQEL05S150J | COIL                    | 15UH  | 1       | Q742    | 2SA1226     | TRANSISTOR               | 1   |         |
| L731    | VLQEL05F101K | COIL                    | 100UH | 1       | Q745,46 | 2SC2295     | TRANSISTOR CHIP          | 2   | (B,C)   |
| L732    | VLQEL05S6R8K | COIL                    | 6.8UH | 1       | Q747    | 2SA1022-C   | TRANSISTOR CHIP          | 1   | (B,C)   |
| L733    | VLQEL05F101K | COIL                    | 100UH | 1       | Q748,49 | 2SA1226     | TRANSISTOR               | 2   |         |
| L737    | VLQEL05S220J | COIL                    | 22UH  | 1       | Q750    | 2SC3757     | TRANSISTOR               | 1   | (Q,R)   |
| L738    | VLQEL05S390J | COIL                    | 39UH  | 1       | Q751    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   |
| L739-42 | VLQEL05F101K | COIL                    | 100UH | 4       | Q753    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   |
|         |              |                         |       |         | Q754    | 2SA1462     | TRANSISTOR               | 1   |         |
|         |              |                         |       |         | Q755    | 2SA1226     | TRANSISTOR               | 1   |         |
|         |              |                         |       |         | Q756    | 2SB709      | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q301-04 | 2SC2295      | TRANSISTOR CHIP         | 4     | (B,C)   | Q757    | 2SC2480     | TRANSISTOR               | 1   |         |
| Q309,10 | 2SC2295      | TRANSISTOR CHIP         | 2     | (B,C)   | Q758-60 | 2SC3757     | TRANSISTOR               | 3   | (Q,R)   |
| Q311    | 2SA1022-C    | TRANSISTOR CHIP         | 1     | (B,C)   | Q761    | 2SC2295     | TRANSISTOR CHIP          | 1   | (B,C)   |
| Q313,14 | 2SC2295      | TRANSISTOR CHIP         | 2     | (B,C)   | Q762    | 2SA1022-C   | TRANSISTOR CHIP          | 1   | (B,C)   |
| Q315    | 2SA1022-C    | TRANSISTOR CHIP         | 1     | (B,C)   | Q763    | 2SD601      | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q316    | 2SC2295      | TRANSISTOR CHIP         | 1     | (B,C)   | Q764    | 2SB709      | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q317,18 | 2SA1022-C    | TRANSISTOR CHIP         | 2     | (B,C)   |         |             |                          |     |         |
| Q319    | IMM4         | TRANSISTOR              | 1     |         |         |             |                          |     |         |
| Q320    | UN2113       | TRANSISTOR-RESISTOR     | 1     |         |         |             |                          |     |         |
| Q321    | 2SC2295      | TRANSISTOR CHIP         | 1     | (B,C)   |         |             | RESISTORS                |     |         |
| Q323    | IMM4         | TRANSISTOR              | 1     |         | R20     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| Q324    | 2SC2295      | TRANSISTOR CHIP         | 1     | (B,C)   | R101    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q326    | 2SC2295      | TRANSISTOR CHIP         | 1     | (B,C)   | R301    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q327    | 2SA1022-C    | TRANSISTOR CHIP         | 1     | (B,C)   | R302    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| Q329-38 | 2SC2295      | TRANSISTOR CHIP         | 10    | (B,C)   | R303    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q339,40 | UN2213       | TRANSISTOR-RESISTOR     | 2     |         | R304    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q341    | 2SA1462      | TRANSISTOR              | 1     |         | R305    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q342,43 | 2SC3757      | TRANSISTOR              | 2     | (Q,R)   | R306    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| Q344    | 2SC2295      | TRANSISTOR CHIP         | 1     | (B,C)   | R307    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q345    | 2SA1022-C    | TRANSISTOR CHIP         | 1     | (B,C)   | R308    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q346    | 2SC2480      | TRANSISTOR              | 1     |         | R309    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q347    | 2SA1462      | TRANSISTOR              | 1     |         | R310    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q348    | 2SC2480      | TRANSISTOR              | 1     |         | R322    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q349,50 | 2SA1226      | TRANSISTOR              | 2     |         | R323    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q351    | 2SK374       | TRANSISTOR              | 1     |         | R324    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q352    | 2SC3757      | TRANSISTOR              | 1     | (Q,R)   | R325,26 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| Q353    | 2SA1226      | TRANSISTOR              | 1     |         | R327    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q356-61 | UN2113       | TRANSISTOR-RESISTOR     | 1     |         | R328    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q362,63 | 2SC2295      | TRANSISTOR CHIP         | 2     | (B,C)   | R329    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| Q364    | 2SA1022-C    | TRANSISTOR CHIP         | 1     | (B,C)   | R330    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| Q365,66 | 2SA1226      | TRANSISTOR              | 1     |         | R331    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q367    | 2SC3757      | TRANSISTOR              | 1     | (Q,R)   | R332    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q368,69 | 2SC2295      | TRANSISTOR CHIP         | 2     | (B,C)   | R333,34 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| Q370,71 | UN2113       | TRANSISTOR-RESISTOR     | 2     |         | R335,36 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| Q372    | 2SC2295      | TRANSISTOR CHIP         | 1     | (B,C)   | R337,38 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| Q373-75 | UN2213       | TRANSISTOR-RESISTOR     | 3     |         | R339,40 | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 2   |         |
| Q376    | 2SA1462      | TRANSISTOR              | 1     |         | R341    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q377    | 2SA1226      | TRANSISTOR              | 1     |         | R342    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| Q378    | 2SB709       | TRANSISTOR CHIP         | 1     | (Q,R)   | R343    | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| Q379    | 2SC2480      | TRANSISTOR              | 1     |         | R344    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q380,81 | 2SC2295      | TRANSISTOR CHIP         | 2     | (B,C)   | R345    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q382-84 | 2SC3757      | TRANSISTOR              | 3     | (Q,R)   | R346    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q385,86 | 2SC2295      | TRANSISTOR CHIP         | 2     | (B,C)   | R347    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| Q387    | 2SA1022-C    | TRANSISTOR CHIP         | 1     | (B,C)   | R348    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| Q388    | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   | R349    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q389    | 2SB709       | TRANSISTOR CHIP         | 1     | (Q,R)   | R350,51 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| Q701,02 | 2SA1022-C    | TRANSISTOR CHIP         | 2     | (B,C)   | R352    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |

Refer to the P.C. BOARDS LIST, page 5-1-1, before using this page.

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description   | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|---------------------------|-----|---------|
| R353    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R487    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R354    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R488    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R355    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R499    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R356    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R490    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R357    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R491    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K   | 1   |         |
| R358    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R492    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R359    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R493    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R360,61 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         | R494,95 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| R362    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R496    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R363    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R497    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R364    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R498    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R365    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R499    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R366    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R500    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R367    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R501    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R368    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R502    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R369    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R503    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R370    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R504    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         |
| R371    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R505,06 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 2   |         |
| R372    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R508    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R373    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R509    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R374    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         | R510    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R375    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R511    | VR00034E27B | M.RESISTOR CH 1/10W 1.67K | 1   |         |
| R386    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R512    | VR00034E751 | M.RESISTOR CH 1/10W 750   | 1   |         |
| R387,88 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         | R513    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R389    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R514    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R390    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R515    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         |
| R391    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R516    | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 1   |         |
| R392    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R518    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R393    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R519    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R397    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R520    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R398    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R521    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| R399,00 | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 2   |         | R522    | VR00034E26A | M.RESISTOR CH 1/10W 182   | 1   |         |
| R401    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R523    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R402    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R524    | VR00034E89A | M.RESISTOR CH 1/10W 825   | 1   |         |
| R403    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R525    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R404    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R526,27 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         |
| R405    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R528    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R406    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R529    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R407    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R530    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         |
| R408    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R531,32 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 2   |         |
| R409    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R533,34 | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 2   |         |
| R410    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R535,36 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 2   |         |
| R411,12 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         | R537    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R413    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R538    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R414    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R539    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R415    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R540    | VR00034E26A | M.RESISTOR CH 1/10W 182   | 1   |         |
| R426    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R541    | VR00034E89A | M.RESISTOR CH 1/10W 825   | 1   |         |
| R427-34 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R542    | VR00034E89A | M.RESISTOR CH 1/10W 413   | 1   |         |
| R435,36 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | R543    | VR00034E102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R437    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R544    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R438,39 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         | R545    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R440    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R546    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R441,42 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         | R547    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R443,44 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         | R548    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R445    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R550    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R446    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         | R551    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         |
| R447,48 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R552    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R449    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R553    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R450,51 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R554    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R452,53 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R555    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R454-65 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 12  |         | R556    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R466    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R561-63 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 3   |         |
| R467,68 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R564    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R469,70 | ERJ6GEYJ150 | M.RESISTOR CH 1/10W 15   | 2   |         | R565    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R471,72 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | R566    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R473    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R567    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R474    | ERDS21J222  | C.RESISTOR 1/4W 2.2K     | 1   |         | R568    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R475    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R569,70 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         |
| R477    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R571    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R478    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R572    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R479    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R573,74 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         |
| R480,81 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         | R575,76 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         |
| R482    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R577    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R483,84 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         | R578    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R485,86 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R579    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |

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| Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R580     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R737     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R581     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R738     | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R582     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R739     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R583     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         | R740     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R584     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R741     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R585     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R742     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R586     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R743     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R587,88  | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2   |         | R744     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R589     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R745,46  | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R590     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R747     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R591     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R748     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R592     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R749     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R593     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R750     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R594     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R751     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R595,96  | ERJ6GEYJ475 | M.RESISTOR CH 1/10W 4.7M | 2   |         | R752     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R597     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R753     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R598     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R754     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R599     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R755     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R600     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R756     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R601     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R760     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R602     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R761     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R603,04  | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 2   |         | R762,63  | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R605,06  | ERJ6GEYJ475 | M.RESISTOR CH 1/10W 4.7M | 2   |         | R764     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R607     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R765     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R608,09  | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         | R766     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R610     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R767     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R611     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R768     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R612     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R769     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R613     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R770     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R614     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R771     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R615     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R772     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R616     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R773     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R617-19  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | R774,75  | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R620     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R776     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R621,22  | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 2   |         | R777     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R623     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R778     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R624-26  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | R789     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R627     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R790-97  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 8   |         |
| R628     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R798,99  | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R629     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R800     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R630,31  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         | R801,02  | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R632     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R803     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R633     | ERDS2TJ331  | C.RESISTOR 1/4W 330      | 1   |         | R804,05  | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R635,36  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R806,07  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R637     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R808     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R638     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1   |         | R809     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R639,40  | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         | R810,11  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R643     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R812     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R644,45  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R813,14  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R646     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R815,16  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R647,48  | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 2   |         | R817-28  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 12  |         |
| R649     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R829     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R650-53  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 4   |         | R830,31  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R654,55  | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         | R832,33  | ERJ6GEYJ150 | M.RESISTOR CH 1/10W 15   | 2   |         |
| R656     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R834,35  | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R657     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 0   |         | R836     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R660     | ERDS2TJ331  | C.RESISTOR 1/4W 330      | 1   |         | R837     | ERDS2TJ222  | C.RESISTOR 1/4W 2.2K     | 1   |         |
| R661     | ERDS2TJ472  | C.RESISTOR 1/4W 4.7K     | 1   |         | R839-40  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R701     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R842     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R702     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R843,44  | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R703     | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         | R845     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R704     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1   |         | R846,47  | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         |
| R705     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R848,49  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R711,12  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R850     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R723,24  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         | R851     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R725     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R852     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R726     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R853     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R727     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R854     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R728,29  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R855     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R730     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R856,57  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R731     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R858     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R732,33  | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 2   |         | R859     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R734     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R860     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R735     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R861     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R736     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         | R862     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |

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| Ref.No.  | Part No.    | Part Name & Description   | Pcs | Remarks | Ref.No.   | Part No.     | Part Name & Description  | Pcs | Remarks |
|----------|-------------|---------------------------|-----|---------|-----------|--------------|--------------------------|-----|---------|
| R863     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R951      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R864     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R952      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R865     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         | R953, 54  | ERJ6GEYJ105  | M.RESISTOR CH 1/10W 1M   | 2   |         |
| R866     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         | R955, 56  | ERJ6GEYK475  | M.RESISTOR CH 1/10W 4.7M | 2   |         |
| R867     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         | R957, 58  | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R868     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R959      | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470  | 1   |         |
| R870     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R960      | ERJ6GEYJ153  | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R871     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R961-63   | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R872     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R964      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R873     | VR80034E27B | M.RESISTOR CH 1/10W 1.87K | 1   |         | R965      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R874     | VR80034E751 | M.RESISTOR CH 1/10W 750   | 1   |         | R966-68   | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R875     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R969, 70  | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R876     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R971      | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R878     | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 1   |         | R972      | ERDS2TJ331   | C.RESISTOR 1/4W 330      | 1   |         |
| R879     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R973      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R880     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R974      | ERJ6GEYOR00  | M.RESISTOR CH 1/10W      | 1   |         |
| R881     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R975, 76  | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 2   |         |
| R882     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         | R977      | ERJ6GEYJ682  | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R883     | VR80034E26A | M.RESISTOR CH 1/10W 182   | 1   |         | R978, 79  | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220  | 2   |         |
| R884     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | R980      | ERJ6GEYJ682  | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R885     | VR80034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | R981, 82  | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R886, 87 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R983, 84  | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 2   |         |
| R888     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | R985      | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R888     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | R986, 87  | ERJ6GEYJ331  | M.RESISTOR CH 1/10W 330  | 2   |         |
| R889     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         | R989      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R890     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 1   |         | R991, 92  | ERJ6GEYOR00  | M.RESISTOR CH 1/10W      | 2   |         |
| R891     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 1   |         | R993      | ERDS2TJ331   | C.RESISTOR 1/4W 330      | 1   |         |
| R892     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R994      | ERDS2TJ472   | C.RESISTOR 1/4W 4.7K     | 1   |         |
| R893     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 1   |         |           |              |                          |     |         |
| R894     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 1   |         |           |              |                          |     |         |
| R895     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |           |              |                          |     |         |
| R896     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |           |              |                          |     |         |
| R897     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | SW304     | VSS0126      | SWITCH                   | 1   |         |
| R898     | VR80034E26A | M.RESISTOR CH 1/10W 182   | 1   |         | SW305, 06 | VSS0207      | SWITCH                   | 2   |         |
| R899     | VR80034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | SW704     | VSS0126      | SWITCH                   | 1   |         |
| R900     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |           |              |                          |     |         |
| R901     | VR80034E59A | M.RESISTOR CH 1/10W 413   | 1   |         |           |              |                          |     |         |
| R902     | VR80034E102 | M.RESISTOR CH 1/10W 1K    | 1   |         |           |              |                          |     |         |
| R903     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |           |              |                          |     |         |
| R904     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | TP301-04  | VJRO646      | TEST POINT               | 4   |         |
| R905, 06 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         | TP306-13  | VJRO646      | TEST POINT               | 8   |         |
| R907     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | TP315     | VJRO646      | TEST POINT               | 1   |         |
| R909     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | TP317     | VJRO646      | TEST POINT               | 1   |         |
| R910     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         | TP701-10  | VJRO646      | TEST POINT               | 10  |         |
| R911     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | TP712     | VJRO646      | TEST POINT               | 1   |         |
| R912     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | TPG301-03 | VJRO646      | TEST POINT               | 3   |         |
| R913     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | TPG701-03 | VJRO646      | TEST POINT               | 3   |         |
| R914     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |           |              |                          |     |         |
| R915     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |           |              |                          |     |         |
| R920     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | VC301     | ECV12W10X53T | V.CAPACITOR 10P          | 1   |         |
| R921, 22 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | VC701     | ECV12W20X53T | V.CAPACITOR 20P          | 1   |         |
| R923     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |           |              |                          |     |         |
| R924     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |           |              |                          |     |         |
| R925, 26 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | VL301, 02 | EIR7QF016B   | COIL                     | 2   |         |
| R927, 28 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         | VL303     | EIR7QF015B   | COIL                     | 1   |         |
| R929     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | VL701     | EIR7QF016B   | COIL                     | 1   |         |
| R930     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | VL702     | EIR7QF015B   | COIL                     | 1   |         |
| R931     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |           |              |                          |     |         |
| R932     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |           |              |                          |     |         |
| R933     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |           |              |                          |     |         |
| R934     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         | VR301     | VRV0109B501  | V.RESISTOR 500           | 1   |         |
| R935     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K  | 1   |         | VR302     | VRV0109B102  | V.RESISTOR 1K            | 1   |         |
| R936     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | VR303     | VRV0109B501  | V.RESISTOR 500           | 1   |         |
| R937, 38 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         | VR304     | VRV0109B102  | V.RESISTOR 1K            | 1   |         |
| R939     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | VR309     | VRV0109B101  | V.RESISTOR 100           | 1   |         |
| R940     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         | VR310     | VRV0109B502  | V.RESISTOR 5K            | 1   |         |
| R941     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         | VR311     | VRV0109B501  | V.RESISTOR 500           | 1   |         |
| R942     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | VR312     | VRV0064B104  | V.RESISTOR 100K          | 1   |         |
| R943     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 1   |         | VR313, 14 | VRV0064B502  | V.RESISTOR 5K            | 2   |         |
| R944     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         | VR317     | VRV0109B501  | V.RESISTOR 500           | 1   |         |
| R945, 46 | ERJ6GEYJ475 | M.RESISTOR CH 1/10W 4.7M  | 2   |         | VR318     | VRV0109B203  | V.RESISTOR 20K           | 1   |         |
| R947     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K  | 1   |         | VR319, 20 | VRV0109B102  | V.RESISTOR 1K            | 2   |         |
| R948     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | VR321     | VRV0109B203  | V.RESISTOR 20K           | 1   |         |
| R949     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | VR322     | VRV0109B102  | V.RESISTOR 1K            | 1   |         |
| R950     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | VR323     | VRV0109B203  | V.RESISTOR 20K           | 1   |         |

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| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|---------|
| C756    | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         |
| C759    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C760    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C762    | ECUM1H391JCN | C.CAPACITOR CH 50V 390P  | 1   |         |
| C764    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
| C765,66 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C767    | ECFA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C768,69 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C770    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C771    | ECUM1H681JCN | C.CAPACITOR CH 50V 680P  | 1   |         |
| C772    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C773-75 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         |
| C776    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C777    | ECFA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C778,79 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C780,81 | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 2   |         |
| C782    | ECFA1AU471   | E.CAPACITOR 10V 470U     | 1   |         |
| C783    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C784    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C785    | ECFA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C786    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C787    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C788    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C789,90 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C791    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C792    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C793    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C794    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C796    | ECFA1CU100   | E.CAPACITOR 16V 10U      | 1   |         |
| C797    | VCMO023      | M.CAPACITOR 379P         | 1   |         |
| C799    | ECFA1JU221   | E.CAPACITOR 6.3V 220U    | 1   |         |
| C800    | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         |
| C801    | ECUM1H020DCN | C.CAPACITOR CH 50V 2P    | 1   |         |
| C802    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C803,04 | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C805    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
| C808    | ECFA1CU221   | E.CAPACITOR 16V 220U     | 1   |         |
| C810    | ECFA1CU221   | E.CAPACITOR 16V 220U     | 1   |         |
| C811,12 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C813,14 | VCMO027      | V.CAPACITOR              | 2   |         |
| C815    | ECFA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C816    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C817    | ECFA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C818    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C819    | ECFA1CU101   | E.CAPACITOR 16V 100U     | 1   |         |
| C821    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C822    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C823,24 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C825    | ECFA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C826    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C827    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C828    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C829    | ECFA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C830,31 | ECFA1CU100   | E.CAPACITOR 16V 10U      | 2   |         |
| C832,33 | ECFA1AU101   | E.CAPACITOR 10V 100U     | 2   |         |
| C834    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
| C835    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C836    | ECOF1H330JC  | C.CAPACITOR 50V 33P      | 1   |         |
| C837    | ECOF1H060DC  | C.CAPACITOR 50V 6P       | 1   |         |
| D301    | MA151WK      | DIODE                    | 1   |         |
| D303    | MA151K       | DIODE                    | 1   |         |
| D305    | MA151K       | DIODE                    | 1   |         |
| D306,07 | MA151WK      | DIODE                    | 2   |         |
| D308-10 | MA151WA      | DIODE                    | 3   |         |
| D701    | MA151WK      | DIODE                    | 1   |         |
| D702,03 | MA151K       | DIODE                    | 2   |         |
| D705    | MA151K       | DIODE                    | 1   |         |
| D706    | MA151WK      | DIODE                    | 1   |         |
| D707    | MA151WA      | DIODE                    | 1   |         |

| Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| DL301    | VLD019D      | DELAY                   | 1   |         |
| DL701    | VLD0199      | DELAY                   | 1   |         |
| FL301    | VLF0545      | FILTER                  | 1   |         |
| FL302    | VLF0658      | FILTER                  | 1   |         |
| FL303    | VLF0712      | FILTER                  | 1   |         |
| FL701    | VLF0652      | FILTER                  | 1   |         |
| IC10     | AN79ND9      | IC                      | 1   |         |
| IC11,12  | AN79ND5F     | IC                      | 2   |         |
| IC13     | AN78ND5F     | IC                      | 1   |         |
| IC14     | AN78ND5      | IC                      | 1   |         |
| IC15     | AN78ND9      | IC                      | 1   |         |
| IC301    | AN6306S      | IC                      | 1   |         |
| IC304    | AN6306S      | IC                      | 1   |         |
| IC305    | AN608P       | IC                      | 1   |         |
| IC306    | NJM1496M     | IC                      | 1   |         |
| IC307    | UPD4053BG    | IC                      | 1   |         |
| IC309    | RC0828M      | IC                      | 1   |         |
| IC311-15 | 10116D       | IC                      | 5   |         |
| IC316    | SN74LS123NS  | IC                      | 1   |         |
| IC317    | MC74HC00AF   | IC                      | 1   |         |
| IC319    | NE5539D      | IC                      | 1   |         |
| IC322    | NJM592M8     | IC                      | 1   |         |
| IC323    | MC74HC4053F  | IC                      | 1   |         |
| IC324    | RC0828M      | IC                      | 1   |         |
| IC325    | TC74HC221AF  | IC                      | 1   |         |
| IC326    | RC0828M      | IC                      | 1   |         |
| IC701    | AN6306S      | IC                      | 1   |         |
| IC705    | NJM1496M     | IC                      | 1   |         |
| IC706    | UPD4053BG    | IC                      | 1   |         |
| IC708-12 | 10116D       | IC                      | 5   |         |
| IC716    | NE5539D      | IC                      | 1   |         |
| IC719    | NJM592M8     | IC                      | 1   |         |
| IC720    | MC74HC4053F  | IC                      | 1   |         |
| IC721    | RC0828M      | IC                      | 1   |         |
| IC722    | TC74HC221AF  | IC                      | 1   |         |
| L301     | VLQEL05F101K | COIL 100UH              | 1   |         |
| L302,03  | VLQEL05S100J | COIL 10UH               | 2   |         |
| L304     | VLQEL05F101K | COIL 100UH              | 1   |         |
| L308     | VLQEL05S3R3J | COIL 3.3UH              | 1   |         |
| L309,10  | VLQEL05F101K | COIL 100UH              | 2   |         |
| L311     | VLQEL05S330J | COIL 33UH               | 1   |         |
| L312     | VLQEL05S2R7J | COIL 2.7UH              | 1   |         |
| L313     | VLQEL05F101K | COIL 100UH              | 1   |         |
| L318     | VLQEL05F101K | COIL 100UH              | 1   |         |
| L320,21  | VLQEL05S2R2J | COIL 2.2UH              | 2   |         |
| L322     | VLQEL05S160J | COIL 16UH               | 1   |         |
| L323     | VLQEL05F101K | COIL 100UH              | 1   |         |
| L324     | VLQEL05S1R0J | COIL 1UH                | 1   |         |
| L325-27  | VLQEL05F101K | COIL 100UH              | 3   |         |
| L328     | VLQEL05S6R8J | COIL 6.8UH              | 1   |         |
| L329     | VLQEL05F101K | COIL 100UH              | 1   |         |
| L330     | VLQEL05S3R3J | COIL 3.3UH              | 1   |         |
| L333     | VLQEL05F101K | COIL 100UH              | 1   |         |
| L334     | VLQEL05S6R8K | COIL 6.8UH              | 1   |         |
| L335     | VLQEL05F101K | COIL 100UH              | 1   |         |
| L339     | VLQEL05S6R8J | COIL 6.8UH              | 1   |         |
| L340,41  | VLQEL05F101K | COIL 100UH              | 2   |         |
| L342     | VLQEL05S820J | COIL 82UH               | 1   |         |
| L343,44  | VLQEL05F101K | COIL 100UH              | 2   |         |
| L701     | VLQEL05F101K | COIL 100UH              | 1   |         |
| L702     | VLQEL05S150J | COIL 15UH               | 1   |         |
| L709     | VLQEL05S4R7J | COIL 4.7UH              | 1   |         |
| L710     | VLQEL05F101K | COIL 100UH              | 1   |         |
| L711     | VLQEL05S560J | COIL 56UH               | 1   |         |
| L712     | VLQEL05F101K | COIL 100UH              | 1   |         |
| L713     | VLQEL05S3R9J | COIL 3.9UH              | 1   |         |

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| Ref.No. | Part No.     | Part Name & Description | Pcs      | Remarks |
|---------|--------------|-------------------------|----------|---------|
| L715    | VLQEL05F101K | COIL 100UH              | 1        |         |
| L716    | VLQEL05S181J | COIL 180UH              | 1        |         |
| L717    | VLQEL05S680J | COIL 68UH               | 1        |         |
| L718    | VLQEL05S2R2J | COIL 2.2UH              | 1        |         |
| L719,20 | VLQEL05S6R8J | COIL 6.8UH              | 2        |         |
| L721    | VLQEL05S4R7J | COIL 4.7UH              | 1        |         |
| L722    | VLQEL05S2R7J | COIL 2.7UH              | 1        |         |
| L723    | VLQEL05S270J | COIL 27UH               | 1        |         |
| L724    | VLQEL05F101K | COIL 100UH              | 1        |         |
| L725    | VLQEL05S1R5J | COIL 1.5UH              | 1        |         |
| L726-28 | VLQEL05F101K | COIL 100UH              | 3        |         |
| L729    | VLQEL05S150J | COIL 15UH               | 1        |         |
| L731    | VLQEL05F101K | COIL 100UH              | 1        |         |
| L732    | VLQEL05S6R8K | COIL 6.8UH              | 1        |         |
| L733    | VLQEL05F101K | COIL 100UH              | 1        |         |
| L737    | VLQEL05S220J | COIL 22UH               | 1        |         |
| L738    | VLQEL05S390J | COIL 39UH               | 1        |         |
| L739-42 | VLQEL05F101K | COIL 100UH              | 4        |         |
| Q301-04 | 2SC2295      | TRANSISTOR CHIP         | 4 (B,C)  |         |
| Q309,10 | 2SC2295      | TRANSISTOR CHIP         | 2 (B,C)  |         |
| Q311    | 2SA1022-C    | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q313,14 | 2SC2295      | TRANSISTOR CHIP         | 2 (B,C)  |         |
| Q315    | 2SA1022-C    | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q316    | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q317,18 | 2SA1022-C    | TRANSISTOR CHIP         | 2 (B,C)  |         |
| Q319    | 1N914        | TRANSISTOR              | 1        |         |
| Q320    | 1N2113       | TRANSISTOR-RESISTOR     | 1        |         |
| Q324    | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q326    | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q327    | 2SA1022-C    | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q329-38 | 2SC2295      | TRANSISTOR CHIP         | 10 (B,C) |         |
| Q339,40 | 1N2113       | TRANSISTOR-RESISTOR     | 2        |         |
| Q341    | 2SA1462      | TRANSISTOR              | 1        |         |
| Q342,43 | 2SC3757      | TRANSISTOR              | 2 (Q,R)  |         |
| Q344    | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q345    | 2SA1022-C    | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q346    | 2SC2480      | TRANSISTOR              | 1        |         |
| Q347    | 2SA1462      | TRANSISTOR              | 1        |         |
| Q348    | 2SC2480      | TRANSISTOR              | 1        |         |
| Q349,50 | 2SA1226      | TRANSISTOR              | 2        |         |
| Q351    | 2SK374       | TRANSISTOR              | 1        |         |
| Q352    | 2SC3757      | TRANSISTOR              | 1 (Q,R)  |         |
| Q353    | 2SA1226      | TRANSISTOR              | 1        |         |
| Q356-61 | 1N2113       | TRANSISTOR-RESISTOR     | 6        |         |
| Q362,63 | 2SC2295      | TRANSISTOR CHIP         | 2 (B,C)  |         |
| Q364    | 2SA1022-C    | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q365,66 | 2SA1226      | TRANSISTOR              | 2        |         |
| Q367    | 2SC3757      | TRANSISTOR              | 1 (Q,R)  |         |
| Q368,69 | 2SC2295      | TRANSISTOR CHIP         | 2 (B,C)  |         |
| Q370,71 | 1N2113       | TRANSISTOR-RESISTOR     | 2        |         |
| Q372    | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q373-75 | 1N2113       | TRANSISTOR-RESISTOR     | 3        |         |
| Q376    | 2SA1462      | TRANSISTOR              | 1        |         |
| Q377    | 2SA1226      | TRANSISTOR              | 1        |         |
| Q378    | 2SB709       | TRANSISTOR CHIP         | 1 (Q,R)  |         |
| Q379    | 2SC2480      | TRANSISTOR              | 1        |         |
| Q380,81 | 2SC2295      | TRANSISTOR CHIP         | 2 (B,C)  |         |
| Q382-84 | 2SC3757      | TRANSISTOR              | 3 (Q,R)  |         |
| Q385,86 | 2SC2295      | TRANSISTOR CHIP         | 2 (B,C)  |         |
| Q387    | 2SA1022-C    | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q388    | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R)  |         |
| Q389    | 2SB709       | TRANSISTOR CHIP         | 1 (Q,R)  |         |
| Q701,02 | 2SA1022-C    | TRANSISTOR CHIP         | 2 (B,C)  |         |
| Q710,11 | 2SC2295      | TRANSISTOR CHIP         | 2 (B,C)  |         |
| Q712    | 2SA1022-C    | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q713    | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q714,15 | 2SA1022-C    | TRANSISTOR CHIP         | 2 (B,C)  |         |
| Q716    | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q718    | 2SC2295      | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q719    | 2SA1022-C    | TRANSISTOR CHIP         | 1 (B,C)  |         |
| Q721-30 | 2SC2295      | TRANSISTOR CHIP         | 10 (B,C) |         |
| Q731    | 1N2213       | TRANSISTOR-RESISTOR     | 1        |         |

| Ref.No.   | Part No.    | Part Name & Description  | Pcs     | Remarks |
|-----------|-------------|--------------------------|---------|---------|
| Q732      | 2SA1462     | TRANSISTOR               | 1       |         |
| Q733      | 2SC2295     | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q734      | 2SA1022-C   | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q735      | 2SC2480     | TRANSISTOR               | 1       |         |
| Q736      | 2SA1462     | TRANSISTOR               | 1       |         |
| Q737      | 2SC2480     | TRANSISTOR               | 1       |         |
| Q738,39   | 2SA1226     | TRANSISTOR               | 2       |         |
| Q740      | 2SK374      | TRANSISTOR               | 1       |         |
| Q741      | 2SC3757     | TRANSISTOR               | 1 (Q,R) |         |
| Q742      | 2SA1226     | TRANSISTOR               | 1       |         |
| Q745,46   | 2SC2295     | TRANSISTOR CHIP          | 2 (B,C) |         |
| Q747      | 2SA1022-C   | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q748,49   | 2SA1226     | TRANSISTOR               | 2       |         |
| Q750      | 2SC3757     | TRANSISTOR               | 1 (Q,R) |         |
| Q751      | 2SC2295     | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q753      | 2SC2295     | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q754      | 2SA1462     | TRANSISTOR               | 1       |         |
| Q755      | 2SA1226     | TRANSISTOR               | 1       |         |
| Q756      | 2SB709      | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q757      | 2SC2480     | TRANSISTOR               | 1       |         |
| Q758-60   | 2SC3757     | TRANSISTOR               | 3 (Q,R) |         |
| Q761      | 2SC2295     | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q762      | 2SA1022-C   | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q763      | 2SD601      | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q764      | 2SB709      | TRANSISTOR CHIP          | 1 (Q,R) |         |
| RESISTORS |             |                          |         |         |
| R20       | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R101      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R301      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R302      | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1       |         |
| R303      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R304      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1       |         |
| R305      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R306      | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1       |         |
| R307      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R308      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1       |         |
| R309      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R310      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R322      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R323      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1       |         |
| R324      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R325,26   | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2       |         |
| R327      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R328      | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1       |         |
| R329      | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1       |         |
| R330      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R331      | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R332      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1       |         |
| R333,34   | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2       |         |
| R335,36   | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R337,38   | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R339,40   | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 2       |         |
| R341      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R342      | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1       |         |
| R343      | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1       |         |
| R344      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R345      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R346      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R347      | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1       |         |
| R348      | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1       |         |
| R349      | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R350,51   | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2       |         |
| R352      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R353      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1       |         |
| R354      | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1       |         |
| R355      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R356      | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1       |         |
| R357      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R358      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1       |         |
| R359      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R360,61   | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2       |         |
| R362      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R363    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R364    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R365    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R366    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R367    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R368    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R369    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R370    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R371    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R397    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R398    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R399.00 | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R401    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R402    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R403    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R404    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R405    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R406    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R407    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R408    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R409    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R410    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R411.12 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R413    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R414    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R415    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R426    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R427-34 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 8   |         |
| R435.36 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R437    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R438.39 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R440    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R441.42 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         |
| R443.44 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R445    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R446    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R447.48 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R449    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R450.51 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R452.53 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R454-65 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 12  |         |
| R466    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R467.68 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R469.70 | ERJ6GEYJ150 | M.RESISTOR CH 1/10W      | 2   |         |
| R471.72 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R473    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R474    | ERJ6GEYJ222 | C.RESISTOR 1/4W 2.2K     | 1   |         |
| R475    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R477    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R478    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R479    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R480.81 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R482    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R483.84 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         |
| R485.86 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R487    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R488    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R489    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R490    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R491    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R492    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R493    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R494.95 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R496    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R497    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R498    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R499    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R500    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R501    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R502    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R503    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R504    | ERJ6GEYJ593 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R505.06 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R508    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R509    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |

| Ref.No. | Part No.    | Part Name & Description   | Pcs | Remarks |
|---------|-------------|---------------------------|-----|---------|
| R510    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R511    | VRE0034E27B | M.RESISTOR CH 1/10W 1.67K | 1   |         |
| R512    | VRE0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         |
| R513    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R514    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R515    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         |
| R516    | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 1   |         |
| R518    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R519    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R520    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R521    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| R522    | VRE0034E26A | M.RESISTOR CH 1/10W 182   | 1   |         |
| R523    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R524    | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         |
| R525    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R526.27 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         |
| R528    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R529    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R530    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         |
| R531.32 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 2   |         |
| R533.34 | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 2   |         |
| R535.36 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R537    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R538    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R539    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R540    | VRE0034E26A | M.RESISTOR CH 1/10W 182   | 1   |         |
| R541    | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         |
| R542    | VRE0034E59A | M.RESISTOR CH 1/10W 413   | 1   |         |
| R543    | VRE0034E102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R544    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R545    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R546    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R547    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R548    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R550    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R551    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         |
| R552    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         |
| R553    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 2   |         |
| R554    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R555    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R556    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R561-63 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 3   |         |
| R564    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R565    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R566    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R567    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R568    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R569.70 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         |
| R571    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R572    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R573.74 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         |
| R575.76 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         |
| R577    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R578    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R579    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R580    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R581    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R582    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         |
| R583    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K  | 1   |         |
| R584    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R585    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R586    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R587.88 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K  | 2   |         |
| R589    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R590    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R591    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R592    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R593    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 1   |         |
| R594    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K  | 1   |         |
| R595.96 | ERJ6GEYJ475 | M.RESISTOR CH 1/10W 4.7K  | 2   |         |
| R597    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K  | 1   |         |
| R598    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R599    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R600    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R601    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R602    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R603,04 | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 2   |         |
| R605,06 | ERJ6GEYK475 | M.RESISTOR CH 1/10W 4.7M | 2   |         |
| R607    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R608,09 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R610    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R611    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R612    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R613    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R614    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R615    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R616    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R617-19 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R620    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R621,22 | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 2   |         |
| R623    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R624-26 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R627    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R628    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R629    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R630,31 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R632    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R633    | ERDS2TJ331  | C.RESISTOR 1/4W 330      | 1   |         |
| R635,36 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R637    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R638    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R639,40 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R643    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R644,45 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R646    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R647,48 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 2   |         |
| R649    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R650-53 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 4   |         |
| R654,55 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         |
| R656    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R660    | ERDS2TJ331  | C.RESISTOR 1/4W 330      | 1   |         |
| R661    | ERDS2TJ472  | C.RESISTOR 1/4W 4.7K     | 1   |         |
| R701    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R702    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R703    | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R704    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R705    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R712    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R723,24 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R725    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R726    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R727    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R728,29 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R730    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R731    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R732,33 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R734    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R735    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R736    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R737    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R738    | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R739    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R740    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R741    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R742    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R743    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R744    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R745,46 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R747    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R748    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R749    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R750    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R751    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R752    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R753    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R754    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R755    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R756    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R760    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R761    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |

| Ref.No. | Part No.    | Part Name & Description   | Pcs | Remarks |
|---------|-------------|---------------------------|-----|---------|
| R762,63 | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 2   |         |
| R764    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R765    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R766    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         |
| R767    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R768    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R769    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R770    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R771    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R772    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R773    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R774,75 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 2   |         |
| R776    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R777    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R778    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R789    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R790-97 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 8   |         |
| R798,99 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         |
| R800    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R801,02 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 2   |         |
| R803    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R804,05 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 2   |         |
| R806,07 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| R808    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R809    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| R810,11 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         |
| R812    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R813,14 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         |
| R815,16 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         |
| R817-28 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 12  |         |
| R829    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         |
| R830,31 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 2   |         |
| R832,33 | ERJ6GEYJ150 | M.RESISTOR CH 1/10W 15    | 2   |         |
| R834,35 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         |
| R836    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R837    | ERDS2TJ222  | C.RESISTOR 1/4W 2.2K      | 1   |         |
| R838-40 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 3   |         |
| R842    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R843,44 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 2   |         |
| R845    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R846,47 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K   | 2   |         |
| R848,49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 2   |         |
| R850    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R851    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R852    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R853    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R854    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R855    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R856,57 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |
| R858    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R859    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R860    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R861    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R862    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R863    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R864    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R865    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R866    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         |
| R867    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         |
| R868    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R870    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R871    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |
| R872    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |
| R873    | VRE0034E27B | M.RESISTOR CH 1/10W 1.87K | 1   |         |
| R874    | VRE0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         |
| R875    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R876    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R878    | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 1   |         |
| R879    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R880    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R881    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |
| R882    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| R883    | VRE0034E26A | M.RESISTOR CH 1/10W 182   | 1   |         |
| R884    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         |
| R885    | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.   | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|-----------|--------------|--------------------------|-----|---------|
| R885,87 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R983,84   | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 2   |         |
| R888    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R985      | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R888    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R986,87   | ERJ6GEYJ331  | M.RESISTOR CH 1/10W 330  | 2   |         |
| R889    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R989      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R890    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R993      | ERD52TJ331   | C.RESISTOR 1/4W 330      | 1   |         |
| R891    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R994      | ERD52TJ472   | C.RESISTOR 1/4W 4.7K     | 1   |         |
| R892    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |           |              |                          |     |         |
| R893    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |           |              |                          |     |         |
| R894    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | SW304     | VSS0126      | SWITCH                   | 1   |         |
| R895    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | SW305,06  | VSS0207      | SWITCH                   | 2   |         |
| R896    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | SW704     | VSS0136      | SWITCH                   | 1   |         |
| R897    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |           |              |                          |     |         |
| R898    | VRB0034E26A | M.RESISTOR CH 1/10W 182  | 1   |         |           |              |                          |     |         |
| R899    | VRB0034E99A | M.RESISTOR CH 1/10W 825  | 1   |         |           |              |                          |     |         |
| R900    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |           |              |                          |     |         |
| R901    | VRB0034E59A | M.RESISTOR CH 1/10W 413  | 1   |         | TP301-04  | VJRO646      | TEST POINT               | 4   |         |
| R902    | VRB0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         | TP306-13  | VJRO646      | TEST POINT               | 8   |         |
| R903    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | TP315     | VJRO646      | TEST POINT               | 1   |         |
| R904    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | TP317     | VJRO646      | TEST POINT               | 1   |         |
| R905,06 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | TP701-10  | VJRO646      | TEST POINT               | 10  |         |
| R907    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | TP712     | VJRO646      | TEST POINT               | 1   |         |
| R909    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | TPG301-03 | VJRO646      | TEST POINT               | 3   |         |
| R910    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | TPG701-03 | VJRO646      | TEST POINT               | 3   |         |
| R911    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |           |              |                          |     |         |
| R912    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |           |              |                          |     |         |
| R913    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |           |              |                          |     |         |
| R914    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | VC301     | ECV12W10K53T | V.CAPACITOR 10P          | 1   |         |
| R915    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | VC701     | ECV12W20K53T | V.CAPACITOR 20P          | 1   |         |
| R920    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |           |              |                          |     |         |
| R921,22 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |           |              |                          |     |         |
| R923    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | VL301,02  | EIR70P016B   | COIL                     | 2   |         |
| R924    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | VL303     | EIR70P015B   | COIL                     | 1   |         |
| R925,26 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | VL701     | EIR70P016B   | COIL                     | 1   |         |
| R927,28 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | VL702     | EIR70P015B   | COIL                     | 1   |         |
| R929    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |           |              |                          |     |         |
| R930    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |           |              |                          |     |         |
| R931    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |           |              |                          |     |         |
| R932    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |           |              |                          |     |         |
| R933    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | VR301     | VRV0109B501  | V.RESISTOR 500           | 1   |         |
| R934    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | VR302     | VRV0109B102  | V.RESISTOR 1K            | 1   |         |
| R935    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         | VR303     | VRV0109B501  | V.RESISTOR 500           | 1   |         |
| R936    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | VR304     | VRV0109B102  | V.RESISTOR 1K            | 1   |         |
| R937,38 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | VR309     | VRV0109B101  | V.RESISTOR 100           | 1   |         |
| R939    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | VR310     | VRV0109B502  | V.RESISTOR 5K            | 1   |         |
| R940    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | VR311     | VRV0109B501  | V.RESISTOR 500           | 1   |         |
| R941    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | VR312     | VRV0064B104  | V.RESISTOR 100K          | 1   |         |
| R942    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | VR315,16  | VRV0064B502  | V.RESISTOR 5K            | 2   |         |
| R943    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | VR317     | VRV0109B501  | V.RESISTOR 500           | 1   |         |
| R944    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | VR318     | VRV0109B203  | V.RESISTOR 20K           | 1   |         |
| R945,46 | ERJ6GEYK475 | M.RESISTOR CH 1/10W 4.7M | 2   |         | VR319,20  | VRV0109B102  | V.RESISTOR 1K            | 2   |         |
| R947    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | VR321     | VRV0109B203  | V.RESISTOR 20K           | 1   |         |
| R948    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | VR322     | VRV0109B102  | V.RESISTOR 1K            | 1   |         |
| R949    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VR323     | VRV0109B203  | V.RESISTOR 20K           | 1   |         |
| R950    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | VR324     | VRV0109B102  | V.RESISTOR 1K            | 1   |         |
| R951    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VR325     | VRV0109B202  | V.RESISTOR 2K            | 1   |         |
| R952    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | VR326     | VRV0109B102  | V.RESISTOR 1K            | 1   |         |
| R953,54 | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 2   |         | VR327     | VRV0064B203  | V.RESISTOR 20K           | 1   |         |
| R955,56 | ERJ6GEYK475 | M.RESISTOR CH 1/10W 4.7M | 2   |         | VR328     | VRV0109B203  | V.RESISTOR 20K           | 1   |         |
| R957,58 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         | VR329     | VRV0112B504  | V.RESISTOR 100K          | 1   |         |
| R959    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | VR331     | VRV0109B103  | V.RESISTOR 10K           | 1   |         |
| R960    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | VR701,02  | VRV0109B501  | V.RESISTOR 500           | 2   |         |
| R961-63 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | VR712,13  | VRV0064B502  | V.RESISTOR 5K            | 2   |         |
| R964    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | VR714     | VRV0109B501  | V.RESISTOR 500           | 1   |         |
| R965    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VR715     | VRV0109B203  | V.RESISTOR 20K           | 1   |         |
| R966-68 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | VR716,17  | VRV0109B102  | V.RESISTOR 1K            | 2   |         |
| R969,70 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         | VR718     | VRV0109B203  | V.RESISTOR 20K           | 1   |         |
| R971    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | VR719     | VRV0109B102  | V.RESISTOR 1K            | 1   |         |
| R972    | ERD52TJ331  | C.RESISTOR 1/4W 330      | 1   |         | VR720     | VRV0109B203  | V.RESISTOR 20K           | 1   |         |
| R973    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VR721     | VRV0109B102  | V.RESISTOR 1K            | 1   |         |
| R974    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | VR722     | VRV0109B202  | V.RESISTOR 2K            | 1   |         |
| R975,76 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | VR723     | VRV0109B102  | V.RESISTOR 1K            | 1   |         |
| R977    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | VR724     | VRV0064B203  | V.RESISTOR 20K           | 1   |         |
| R978,79 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 2   |         | VR725     | VRV0109B504  | V.RESISTOR 500K          | 1   |         |
| R980    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | VR726     | VRV0109B103  | V.RESISTOR 10K           | 1   |         |
| R981,82 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |           |              |                          |     |         |

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| Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks     | Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|-------------|----------|--------------|---------------------------|-----|---------|
|          | VEPR3099A    | P.C. BOARD W/COMPONENT    |     | FOR AD-65-F | C83      | ECEA1AU330   | E. CAPACITOR 10V 33U      | 1   |         |
|          |              | M4 DEC & CTOM             |     |             | C84      | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
|          |              |                           |     |             | C85      | ECEA1AU330   | E. CAPACITOR 10V 33U      | 1   |         |
|          |              |                           |     |             | C86      | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |
|          |              |                           |     |             | C87      | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
|          |              |                           |     |             | C88      | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
|          |              |                           |     |             | C89      | ECEA1CU221   | E. CAPACITOR 16V 220U     | 1   |         |
|          |              |                           |     |             | C90      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C91      | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
|          |              |                           |     |             | C92      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|          |              |                           |     |             | C93      | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
|          |              | CAPACITORS                |     |             | C94      | ECUM1H080DCN | C. CAPACITOR CH 50V 80P   | 1   |         |
| C1       | ECEA1HN010S  | E. CAPACITOR 50V 1U       | 1   |             | C95      | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C2, C3   | ECEA0JN101S  | E. CAPACITOR 6.3V 100U    | 2   |             | C96      | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C4, C5   | ECUM1H050DCN | C. CAPACITOR CH 50V 50P   | 2   |             | C97-99   | ECEA1HN47S   | E. CAPACITOR 50V 0.47U    | 3   |         |
| C6       | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C100-02  | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 3   |         |
| C7       | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             | C103-05  | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 3   |         |
| C8       | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C107     | ECEA1EM47S   | E. CAPACITOR 25V 4.7U     | 1   |         |
| C9       | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             | C109     | ECEA1EM47S   | E. CAPACITOR 25V 4.7U     | 1   |         |
| C10      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C110     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C11      | ECEA1CN101S  | E. CAPACITOR 16V 100U     | 1   |             | C112     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C12      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C113     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C13      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             | C114, 15 | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 2   |         |
| C14, 15  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |             | C116     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C16      | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |             | C118     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C17      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C120     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C18      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             | C121     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C19      | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |             | C122     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C20      | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |             | C123     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C21, 22  | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 2   |             | C124     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C23      | ECEA1HN010S  | E. CAPACITOR 50V 1U       | 1   |             | C125     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         |
| C24      | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |             | C140     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C25      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C141, 42 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C26      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             | C161     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C27      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C164     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C28      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             | C165     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C29      | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |             | C166     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C30-36   | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 7   |             | C167     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C38      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C168     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C40      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C169     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C41      | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |             | C170     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C42, 43  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |             | C171     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C44      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             | C172     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C45      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C173     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C46      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             | C174     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C48      | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |             | C175     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C49      | ECEA1AU220   | E. CAPACITOR 10V 22U      | 1   |             | C176     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C50, 51  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |             | C183     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C52      | ECEA1HU010   | E. CAPACITOR 50V 1U       | 1   |             | C184     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C53, 54  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |             | C185     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C55      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             | C195     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C56      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C201, 02 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C57      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             | C203     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C58      | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |             | C204     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C59      | ECEA1AU330   | E. CAPACITOR 10V 33U      | 1   |             | C205     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C60      | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |             | C206     | ECUM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C61      | ECEA1AU330   | E. CAPACITOR 10V 33U      | 1   |             | C207     | ECUM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         |
| C62      | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |             | C208     | ECUM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C63      | ECEA1AU330   | E. CAPACITOR 10V 33U      | 1   |             | C209     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         |
| C64      | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |             | C210-12  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C65      | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |             | C218     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P  | 1   |         |
| C66      | ECEA1CU221   | E. CAPACITOR 16V 220U     | 1   |             | C219     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C67      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C220     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C68      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             | C221     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C69      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C222     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C70      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             | C223     | ECUM1H0200CN | C. CAPACITOR CH 50V 2P    | 1   |         |
| C72      | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |             | C224, 25 | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 2   |         |
| C73      | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |             | C226     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C74      | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |             | C227-31  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C75      | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |             | C232     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C76      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C233-35  | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 3   |         |
| C77      | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |             | C236     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C78, 79  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |             | C240     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C80      | ECEA1HU010   | E. CAPACITOR 50V 1U       | 1   |             | C241     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         |
| C81      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             | C244     | ECEA1CN221S  | E. CAPACITOR 16V 220U     | 1   |         |
| C82      | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |             |          |              |                           |     |         |

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| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|----------|--------------|---------------------------|-----|---------|
| C245     | ECUM1H060DCN | C. CAPACITOR CH 50V 80P   | 1   |         | C530     | ECUM1H060DCN | C. CAPACITOR CH 50V 8P    | 1   |         |
| C246     | ECUM1H020CCN | C. CAPACITOR CH 50V 2P    | 1   |         | C531     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C247     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C532     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C248     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C533, 34 | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 2   |         |
| C249     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C535     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C250     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C536     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C251     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C537     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         |
| C252     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C540     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C273     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C541     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C275, 76 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C542     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C280     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C543     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C284     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C544     | ECUM1H060DCN | C. CAPACITOR CH 50V 80P   | 1   |         |
| C286     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C545     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C287     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C548     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         |
| C288     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         | C550, 51 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C289     | ECUM1H060DCN | C. CAPACITOR CH 50V 8P    | 1   |         | C552     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C290     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         | C553     | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |         |
| C291     | ECUM1H080DCN | C. CAPACITOR CH 50V 80P   | 1   |         | C554     | ECUM1H161JCN | C. CAPACITOR CH 50V 160P  | 1   |         |
| C292     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C555-57  | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 3   |         |
| C293     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C558     | ECEA1H010S   | E. CAPACITOR 50V 1U       | 1   |         |
| C294     | ECEA1JUL01   | E. CAPACITOR 6.3V 100U    | 1   |         | C559-61  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C295     | ECEA1JUL01S  | E. CAPACITOR 6.3V 100U    | 1   |         | C562     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C296     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         | C563     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C297     | ECUM1H060DCN | C. CAPACITOR CH 50V 8P    | 1   |         | C564     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C298     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         | C565     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C299     | ECUM1H080DCN | C. CAPACITOR CH 50V 80P   | 1   |         | C566     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C300     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C567     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C301     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C568     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C302     | ECEA1JUL01   | E. CAPACITOR 6.3V 100U    | 1   |         | C569     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C303     | ECEA1JUL01S  | E. CAPACITOR 6.3V 100U    | 1   |         | C570     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C304     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C571     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C305     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C572     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C306     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C573     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C307, 08 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C574     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C310     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C601-04  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 4   |         |
| C311     | ECEA1HNR47S  | E. CAPACITOR 50V 0.47U    | 1   |         | C605     | ECEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         |
| C312     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         | C606, 07 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 2   |         |
| C313     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C608     | ECEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         |
| C316-18  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         | C609-14  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 6   |         |
| C319     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         | C615     | ECEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         |
| C327     | ECEA1JUL01S  | E. CAPACITOR 6.3V 100U    | 1   |         | C616     | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1   |         |
| C328     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C617     | ECEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         |
| C329     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C618-21  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 4   |         |
| C401     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C622     | ECEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         |
| C402, 03 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C623, 24 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 2   |         |
| C404     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         | C626-31  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 6   |         |
| C405     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C633     | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1   |         |
| C406     | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         | C634     | ECEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         |
| C407     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         | C635-38  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |         |
| C408     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C639     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C409     | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         | C640     | ECEA1JUL01   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C410     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C641, 42 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C411     | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         | C643     | ECEA1JUL01   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C412     | ECUM1H080DCN | C. CAPACITOR CH 50V 80P   | 1   |         | C645     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C413     | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |         | C646     | ECEA1JUL01   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C501     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C647     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C502     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C648     | ECEA1H02R2   | E. CAPACITOR 50V 2.2U     | 1   |         |
| C503     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C649     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C504     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C650     | ECEA1CHG470  | E. CAPACITOR 16V 47U      | 1   |         |
| C505     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | C651-53  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C509     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         | C655     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C510     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C657     | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C511     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         | C658     | ECUM1H050DCN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C513     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C659     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C517     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | C660     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C520     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C661     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C521     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         | C662     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C522     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C663     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
| C523     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         | C664     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C524     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C665     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C525     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C666, 67 | ECEA1CU470   | E. CAPACITOR 16V 47U      | 2   |         |
| C526     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         | C668     | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C527     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         | C679     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C528     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         | C680-83  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 4   |         |
| C529     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         | C701     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.

| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks | Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---------|--------------|---------------------------|-----|---------|---------|----------|-------------------------|-----|---------|
| C702    | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 1   |         |         |          |                         |     |         |
| C703    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |         |          |                         |     |         |
| C704    | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |         |          |                         |     |         |
| C708    | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 1   |         |         |          |                         |     |         |
| C709    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |         |          |                         |     |         |
| C710    | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 1   |         |         |          |                         |     |         |
| C711    | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |         |          |                         |     |         |
| C712    | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         |         |          |                         |     |         |
| C713,14 | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 2   |         |         |          |                         |     |         |
| C715    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |         |          |                         |     |         |
| C716    | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 1   |         |         |          |                         |     |         |
| C717    | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |         |          |                         |     |         |
| C718-20 | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 3   |         |         |          |                         |     |         |
| C721    | ECQM1H122JF  | P. CAPACITOR 50V 1200P    | 1   |         |         |          |                         |     |         |
| C722-24 | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 3   |         |         |          |                         |     |         |
| C725    | ECEA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 1   |         |         |          |                         |     |         |
| C726    | ECEA1HN4R47S | E. CAPACITOR 50V 0.47U    | 1   |         |         |          |                         |     |         |
| C727    | ECEA1HN010S  | E. CAPACITOR 50V 1U       | 1   |         |         |          |                         |     |         |
| C728    | ECEA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 1   |         |         |          |                         |     |         |
| C729    | ECUM1H580JCN | C. CAPACITOR CH 50V 58P   | 1   |         |         |          |                         |     |         |
| C730    | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 1   |         |         |          |                         |     |         |
| C731    | ECUM1H070DCN | C. CAPACITOR CH 50V 7P    | 1   |         |         |          |                         |     |         |
| C732,33 | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 2   |         |         |          |                         |     |         |
| C734    | ECUM1H580JCN | C. CAPACITOR CH 50V 58P   | 1   |         |         |          |                         |     |         |
| C735    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |         |          |                         |     |         |
| C736    | ECUM1H010JCN | C. CAPACITOR CH 50V 100P  | 1   |         |         |          |                         |     |         |
| C737,38 | ECEA1CU100   | E. CAPACITOR 16V 10U      | 2   |         |         |          |                         |     |         |
| C739    | ECUM1H030DCN | C. CAPACITOR CH 50V 3P    | 1   |         |         |          |                         |     |         |
| C740    | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 1   |         |         |          |                         |     |         |
| C743,44 | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 2   |         |         |          |                         |     |         |
| C745,46 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 2   |         |         |          |                         |     |         |
| C749    | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 1   |         |         |          |                         |     |         |
| C750    | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |         |         |          |                         |     |         |
| C751    | ECEA1JU220   | E. CAPACITOR 5.3V 22U     | 1   |         |         |          |                         |     |         |
| C752    | ECUM1H103KCN | C. CAPACITOR CH 50V 0.01U | 1   |         |         |          |                         |     |         |
| C753    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |         |          |                         |     |         |
| C761    | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |         |          |                         |     |         |
| C762    | ECUM1H050DCN | C. CAPACITOR CH 50V 50P   | 1   |         |         |          |                         |     |         |
| C763,64 | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 2   |         |         |          |                         |     |         |
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| D1      | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D2      | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D3,D4   | PA151K       | DIODE                     | 2   |         |         |          |                         |     |         |
| D5      | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D7      | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D8      | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D9      | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D201,02 | PA335R       | DIODE                     | 2   |         |         |          |                         |     |         |
| D203,04 | PA704        | DIODE                     | 2   |         |         |          |                         |     |         |
| D205    | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D206    | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D207    | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D501    | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D502    | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D601,02 | PA704        | DIODE                     | 2   |         |         |          |                         |     |         |
| D603    | 1S250        | DIODE                     | 1   |         |         |          |                         |     |         |
| D701    | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D702    | PA704        | DIODE                     | 1   |         |         |          |                         |     |         |
| D703    | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D704,05 | PA153        | DIODE                     | 2   |         |         |          |                         |     |         |
| D706,07 | PA335R       | DIODE                     | 2   |         |         |          |                         |     |         |
| D708    | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D709    | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
| D710,11 | PA151K       | DIODE                     | 2   |         |         |          |                         |     |         |
| D712    | PA151K       | DIODE                     | 1   |         |         |          |                         |     |         |
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|         |              |                           |     |         |         |          |                         |     |         |
| DL1,L2  | VLD0152      | DELAY LINE                | 2   |         |         |          |                         |     |         |
| DL3     | VLD0149      | DELAY LINE                | 1   |         |         |          |                         |     |         |
| DL4     | VLD0082      | DELAY LINE                | 1   |         |         |          |                         |     |         |
| DL201   | VLD0082      | DELAY LINE                | 1   |         |         |          |                         |     |         |
|         |              |                           |     |         |         |          |                         |     |         |
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| Ref.No. | Part No.     | Part Name & Description | Pcs | Remarks | Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---------|--------------|-------------------------|-----|---------|---------|----------|-------------------------|-----|---------|
| L13     | VLQEL05S1N0J | COIL 1UH                | 1   |         | Q54     | 2SC2404  | TRANSISTOR CHIP         | 1   | (C,D)   |
| L15     | VLQEL05F101K | COIL 100UH              | 1   |         | Q55     | 2SA1226  | TRANSISTOR              | 1   |         |
| L18     | VLQEL05F101K | COIL 100UH              | 1   |         | Q56     | 2SC2404  | TRANSISTOR CHIP         | 1   | (C,D)   |
| L19     | VLQEL05S221J | COIL 220UH              | 1   |         | Q57     | 2SA1226  | TRANSISTOR              | 1   |         |
| L20     | VLQEL05S101J | COIL 100UH              | 1   |         | Q58     | 2SC2295  | TRANSISTOR CHIP         | 1   | (B,C)   |
| L21     | VLQEL05S220J | COIL 22UH               | 1   |         | Q59     | 2SB709   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| L23     | VLQEL05S1R5J | COIL 1.5UH              | 1   |         | Q60     | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| L24     | VLQEL05S220J | COIL 22UH               | 1   |         | Q61     | UN2112   | TRANSISTOR-RESISTOR     | 1   |         |
| L25-28  | VLQEL05S470J | COIL 47UH               | 4   |         | Q62     | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| L29     | VLQEL05S4R7J | COIL 4.7UH              | 1   |         | Q64     | UN2112   | TRANSISTOR-RESISTOR     | 1   |         |
| L201,02 | VLQEL05F101K | COIL 100UH              | 1   |         | Q201,02 | 2SC2295  | TRANSISTOR CHIP         | 2   | (B,C)   |
| L204-06 | VLQEL05F101K | COIL 100UH              | 3   |         | Q203,04 | 2SA1022  | TRANSISTOR CHIP         | 1   | (B,C)   |
| L208,09 | VLQEL05F101K | COIL 100UH              | 2   |         | Q205    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| L212    | VLQEL05F101K | COIL 100UH              | 1   |         | Q206    | 2SC2295  | TRANSISTOR CHIP         | 1   | (B,C)   |
| L214    | VLQEL05S180J | COIL 18UH               | 1   |         | Q207    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| L215    | VLQEL05S4R7J | COIL 4.7UH              | 1   |         | Q209    | 2SC2295  | TRANSISTOR CHIP         | 1   | (B,C)   |
| L216    | VLQEL05S181J | COIL 18UH               | 1   |         | Q210    | 2SA1022  | TRANSISTOR CHIP         | 1   | (B,C)   |
| L220,21 | VLQEL05S680J | COIL 68UH               | 2   |         | Q212    | 2SC2295  | TRANSISTOR CHIP         | 1   | (B,C)   |
| L401    | VLQEL05S470J | COIL 47UH               | 1   |         | Q213    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| L501,02 | VLQEL05F101K | COIL 100UH              | 2   |         | Q214,15 | 2SB709   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| L505    | VLQEL05F101K | COIL 100UH              | 1   |         | Q216    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| L506    | VLQEL05S680J | COIL 68UH               | 1   |         | Q217    | 2SC2295  | TRANSISTOR CHIP         | 1   | (B,C)   |
| L507    | VLQEL05F101K | COIL 100UH              | 1   |         | Q218,19 | 2SB709   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| L508    | VLQEL05S680J | COIL 68UH               | 1   |         | Q230    | 2SB709   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| L509,10 | VLQEL05F101K | COIL 100UH              | 2   |         | Q231,32 | 2SD601   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| L513    | VLQEL05S471J | COIL 47UH               | 1   |         | Q233    | 2SC2404  | TRANSISTOR CHIP         | 1   | (C,D)   |
| L601-03 | VLQ0017      | COIL                    | 3   |         | Q234    | 2SB709   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| L604    | VLQEL05F221K | COIL 200UH              | 1   |         | Q235,36 | 2SD601   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| L606,07 | VLQEL05F101K | COIL 100UH              | 2   |         | Q237    | 2SC2404  | TRANSISTOR CHIP         | 1   | (C,D)   |
| L608    | VLQEL05S560J | COIL 56UH               | 1   |         | Q238,39 | 2SB709   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| L701    | VLQEL05F101K | COIL 100UH              | 1   |         | Q240    | UN2112   | TRANSISTOR-RESISTOR     | 1   |         |
| L703,04 | VLQEL05F101K | COIL 100UH              | 2   |         | Q241,42 | 2SB709   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| L705    | VLQEL05S3R3J | COIL 3.3UH              | 1   |         | Q401,02 | UN2112   | TRANSISTOR-RESISTOR     | 2   |         |
| L706    | VLQEL05S1R5J | COIL 1.5UH              | 1   |         | Q501,02 | 2SD601   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| L707    | VLQEL05S560J | COIL 56UH               | 1   |         | Q503,04 | 2SC2295  | TRANSISTOR CHIP         | 2   | (B,C)   |
|         |              |                         |     |         | Q506    | 2SC2295  | TRANSISTOR CHIP         | 1   | (B,C)   |
|         |              |                         |     |         | Q507    | 2SK374   | TRANSISTOR              | 1   |         |
|         |              |                         |     |         | Q509,10 | 2SD601   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| Q1      | 2SC2295      | TRANSISTOR CHIP         | 1   | (B,C)   | Q511,12 | 2SC2295  | TRANSISTOR CHIP         | 2   | (B,C)   |
| Q2      | 2SD601       | TRANSISTOR CHIP         | 1   | (Q,R)   | Q514    | 2SC2295  | TRANSISTOR CHIP         | 1   | (B,C)   |
| Q3      | 2SB709       | TRANSISTOR CHIP         | 1   | (Q,R)   | Q515    | 2SK374   | TRANSISTOR              | 1   |         |
| Q4      | UN2112       | TRANSISTOR-RESISTOR     | 1   |         | Q517    | 2SB709   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| Q5      | 2SK374       | TRANSISTOR              | 1   |         | Q518,19 | 2SD601   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| Q6      | 2SD601       | TRANSISTOR CHIP         | 1   | (Q,R)   | Q520    | 2SB709   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| Q7      | 2SB709       | TRANSISTOR CHIP         | 1   | (Q,R)   | Q521    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R    |

| Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|
| R10      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R11      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R12      | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R13      | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R14      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R15      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R16      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R17      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R18, 19  | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         |
| R20      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R21      | ERSA1QJ152  | M.RESISTOR 1.5K          | 2   |         |
| R22      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R23      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R24      | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R25      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R26      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R27      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R28      | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R29      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R30      | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R31      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R32-34   | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 3   |         |
| R35      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R36      | VRE0034E201 | M.RESISTOR CH 1/10W 200  | 1   |         |
| R37      | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R38      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R39      | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R40      | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R41      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R42, 43  | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R44, 45  | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         |
| R46      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R47      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R48      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R49      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R50      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R51      | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R52      | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R53      | ERJ6GEYJ750 | M.RESISTOR CH 1/10W 75   | 1   |         |
| R55      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R56      | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R57      | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R58      | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R59      | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R60      | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R61, 62  | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R63-66   | ERJ6GEYJ560 | M.RESISTOR CH 1/10W 56   | 4   |         |
| R67      | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R68      | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R69      | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         |
| R70      | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R71      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R72      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R73      | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R74      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R75      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R76      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R77      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R78      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R79      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R80      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R81      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R82      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R83      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R84, 85  | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         |
| R86      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R87      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R88      | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R89      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R90      | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R91      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R92      | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R93      | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R94      | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R95      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |

| Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|
| R96      | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R97      | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R98      | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R99      | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R100     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R101     | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R102, 03 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R104-07  | ERJ6GEYJ560 | M.RESISTOR CH 1/10W 56   | 4   |         |
| R108     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R109     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R110     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R111     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R112     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R113     | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R114     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R115     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R116     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R117     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R118     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R119     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R120     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R121     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R122     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R123     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R124     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R125     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R126     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R127, 28 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 2   |         |
| R129-34  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 6   |         |
| R137     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R138     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R139, 40 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R141, 42 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R143     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R144, 45 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R146, 47 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R148     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R149     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R150     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R151     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R152     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R153     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R154     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R155     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R156     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R157     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R158, 59 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R161     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R162     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R163     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R164     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R165-71  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 7   |         |
| R175     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R176     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R177     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R182     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R183     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R188     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R193     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R201     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R202     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R203     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R204, 05 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R206     | ERDS2TJ681  | C.RESISTOR 1/4W 680      | 1   |         |
| R207     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R208     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R209     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R210, 11 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R212     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R213     | ERDS2TJ471  | C.RESISTOR 1/4W 470      | 1   |         |
| R214, 15 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R216     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R217     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R219     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R220     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.



| Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|
| R221     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R226     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R227-29  | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 3   |         |
| R230     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R231     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R232     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R235,36  | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R237     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R238     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R239     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R240     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R241,42  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R246     | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         |
| R247     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R248     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R249     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R250     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R251     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R252     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R253     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R254     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R255     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R256     | ERDS2TJ221  | C.RESISTOR 1/4W 220      | 1   |         |
| R257     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R258     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R259     | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R260     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R261     | ERDS2TJ331  | C.RESISTOR 1/4W 330      | 1   |         |
| R262     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R264     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R265     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R266     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R267     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R295,96  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R297     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R298     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R299,00  | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R301     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R302     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R303     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R304     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R305     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R306,07  | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R308     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R309     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R310     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R311     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R312     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R313     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R314     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R315,16  | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 2   |         |
| R317     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R318     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R319     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R320     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R321     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R322     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R323     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R324     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R325     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R326,27  | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R328     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R330     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R331     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R332     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R333     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R334     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R335     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R336     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R337     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R338     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R345     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R346     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R347     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R348     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |

| Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|
| R349,50  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R351     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R353     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R354     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R362     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R363     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R364     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R365     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R366     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R367     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R374     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R401     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R402     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R403     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R404     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R405,06  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R407,08  | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 0   |         |
| R412,13  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R415     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 0   |         |
| R416     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R501     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R502     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R503     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R504     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R505     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R506     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R507     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R508     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R509     | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R510     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R511     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R512     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R513     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R514     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R515     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R516     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R517     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R518     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R519     | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1   |         |
| R520     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R521     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R522     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R523     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R524     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R525     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R526     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R527     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R528     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R529     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R530     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R531     | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R532     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R533,34  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R535     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R536     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R537     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R538     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R539     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R540     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R541     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R542     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R543     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R544     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R545     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R546     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R547     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R548     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R549     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R550     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R552,53  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R554     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R555     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R556     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R557     | ERJ6GEYJ162 | M.RESISTOR CH 1/10W 1.6K | 1   |         |
| R558     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.   | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|-----------|--------------|--------------------------|-----|---------|
| R562.63 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R728      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R564    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R729      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R565    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | -1  |         | R731      | ERJ6GEYJ393  | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R566    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R732      | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R567    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R733      | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R569    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R734      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R571    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R735.36   | ERJ6GEYJ104  | M.RESISTOR CH 1/10W 100K | 2   |         |
| R572    | ERJ6GEYJ181 | M.RESISTOR CH1/10W 180   | 1   |         | R737      | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R573    | ERJ6GEYJ750 | M.RESISTOR CH 1/10W 75   | 1   |         | R738.39   | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R574    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R748      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R575    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R751      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R576    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R752      | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R577    | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         | R753.54   | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R578    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R755.56   | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R579    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R761      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R580    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R762      | ERJ6GEYJ822  | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R581    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R763.64   | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R582-84 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | R765      | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R585.86 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R766      | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R587.88 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | R769-71   | ERJ6GEYJ682  | M.RESISTOR CH 1/10W 6.8K | 3   |         |
| R589    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |           |              |                          |     |         |
| R601.02 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |           |              |                          |     |         |
| R603-10 | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |           |              |                          |     |         |
| R613    | VRB0034E361 | M.RESISTOR CH 1/10W 360  | 1   |         | SW201     | VSS0126      | SWITCH                   | 1   |         |
| R614.15 | VRB0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         | SW701     | VSS0126      | SWITCH                   | 1   |         |
| R616    | VRB0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |           |              |                          |     |         |
| R617    | VRB0034E202 | M.RESISTOR CH 1/10W 2K   | 1   |         |           |              |                          |     |         |
| R618    | VRB0034E152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |           |              |                          |     |         |
| R620    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | TP1       | VJRO582      | PACK PIN                 | 1   |         |
| R621    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP3-P7    | VJRO582      | PACK PIN                 | 5   |         |
| R622    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | TP201-06  | VJRO582      | PACK PIN                 | 6   |         |
| R623.24 | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 2   |         | TP401-05  | VJRO582      | PACK PIN                 | 5   |         |
| R625    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | TP501.02  | VJRO582      | PACK PIN                 | 2   |         |
| R626.27 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         | TP504     | VJRO582      | PACK PIN                 | 1   |         |
| R628    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP601     | VJRO582      | PACK PIN                 | 1   |         |
| R630    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | TP701-04  | VJRO582      | PACK PIN                 | 4   |         |
| R631    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | TPG201    | VJRO582      | PACK PIN                 | 1   |         |
| R632    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | TP0501.02 | VJRO582      | PACK PIN                 | 2   |         |
| R633    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |           |              |                          |     |         |
| R634    | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |           |              |                          |     |         |
| R635    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |           |              |                          |     |         |
| R636    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VC1       | ECV12W20K53T | V.CAPACITOR              | 20P | 1       |
| R638    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | VC201     | ECV12W50K53T | V.CAPACITOR              | 50P | 1       |
| R640    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | VC401     | ECV12W10K53T | V.CAPACITOR              | 10P | 1       |
| R641    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |           |              |                          |     |         |
| R643    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |           |              |                          |     |         |
| R644    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | VL701     | VLQ0415      | COIL                     |     | 1       |
| R645    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |           |              |                          |     |         |
| R646    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |           |              |                          |     |         |
| R647    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |           |              |                          |     |         |
| R648    | ERJ6GEYJ330 | M.RESISTOR CH1/10W 33    | 1   |         |           |              |                          |     |         |
| R656    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VR1       | VRV0109B501  | V.RESISTOR               | 500 | 1       |
| R701    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | VR2.R3    | VRV0109B102  | V.RESISTOR               | 1K  | 2       |
| R702    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | VR6-R9    | VRV0109B501  | V.RESISTOR               | 500 | 4       |
| R703    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | VR10      | VRV0109B501  | V.RESISTOR               | 500 | 1       |
| R704    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | VR11      | VRV0109B102  | V.RESISTOR               | 1K  | 1       |
| R705    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | VR201-03  | VRV0109B501  | V.RESISTOR               | 500 | 3       |
| R706.07 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         | VR204.05  | VRV0109B202  | V.RESISTOR               | 2K  | 2       |
| R708    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | VR206.07  | VRV0109B102  | V.RESISTOR               | 1K  | 2       |
| R709    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | VR212     | VRV0109B102  | V.RESISTOR               | 1K  | 1       |
| R710    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | VR213     | VRV0109B202  | V.RESISTOR               | 2K  | 1       |
| R711    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | VR214     | VRV0109B102  | V.RESISTOR               | 1K  | 1       |
| R712    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | VR215     | VRV0109B202  | V.RESISTOR               | 2K  | 1       |
| R713    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | VR216.17  | VRV0109B203  | V.RESISTOR               | 20K | 2       |
| R714    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | VR218     | VRV00648502  | V.RESISTOR               | 5K  | 1       |
| R715    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | VR401.02  | VRV0109B102  | V.RESISTOR               | 1K  | 2       |
| R716    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | VR403     | VRV0109B103  | V.RESISTOR               | 10K | 1       |
| R717.18 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | VR501.02  | VRV0109B202  | V.RESISTOR               | 2K  | 2       |
| R719    | ERJ6GEYJ123 | M.RESISTOR CH1/10W 12K   | 1   |         | VR503-05  | VRV0109B102  | V.RESISTOR               | 1K  | 3       |
| R720    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | VR601.02  | VRV00648201  | V.RESISTOR               | 200 | 2       |
| R721.22 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | VR603.04  | VRV0109B102  | V.RESISTOR               | 1K  | 2       |
| R723    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | VR701     | VRV0109B202  | V.RESISTOR               | 2K  | 1       |
| R724    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | VR702-04  | VRV0109B502  | V.RESISTOR               | 5K  | 3       |
| R725.26 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |           |              |                          |     |         |
| R727    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |           |              |                          |     |         |

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| Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks | Ref. No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|-----------|--------------|---------------------------|-----|---------|
| C511     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         | C659      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C513     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C660      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C517     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | C661      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C520     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C662      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C521     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         | C663      | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C522     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C664      | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C523     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         | C665      | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C524     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C666, 67  | ECEA1CU470   | E. CAPACITOR 16V 47U      | 2   |         |
| C525     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C668      | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C526     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C679      | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C527     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         | C680-83   | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 4   |         |
| C528     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         | C701      | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C529     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C702      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C531     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C703      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C532     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C704      | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C533, 34 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 2   |         | C708      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C535     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         | C709      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C536     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C710      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C537     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         | C711      | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |
| C540     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C712      | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C541     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C713, 111 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C542     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C715      | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C543     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C716      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C544     | ECUM1H080JCN | C. CAPACITOR CH 50V 80P   | 1   |         | C717      | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C545     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C718-20   | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C548     | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |         | C721      | ECUM1H122JF  | P. CAPACITOR 50V 1200P    | 1   |         |
| C550, 51 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C722-24   | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C552     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         | C725      | ECEA1H2R2S   | E. CAPACITOR 50V 2.2U     | 1   |         |
| C553     | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |         | C726      | ECEA1HNR47S  | E. CAPACITOR 50V 0.47U    | 1   |         |
| C554     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         | C727      | ECEA1HVO10S  | E. CAPACITOR 50V 1U       | 1   |         |
| C555-57  | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 3   |         | C728      | ECEA1HNR2R2S | E. CAPACITOR 50V 2.2U     | 1   |         |
| C558     | ECEA1HVO10S  | E. CAPACITOR 50V 1U       | 1   |         | C729      | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C559-61  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         | C730      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C562     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         | C731      | ECUM1H070JCN | C. CAPACITOR CH 50V 7P    | 1   |         |
| C563     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C732, 33  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C564     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C734      | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C565     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         | C735      | ECUM1H471JCN | C. CAPACITOR CH 50V 470P  | 1   |         |
| C566     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C736      | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C567     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C737, 38  | ECEA1CU100   | E. CAPACITOR 16V 10U      | 2   |         |
| C568     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         | C739      | ECUM1H050JCN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C569     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C740      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C570     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C743, 44  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C571     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         | C745, 46  | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 2   |         |
| C572     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C749      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C573     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C750      | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |         |
| C574     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         | C751      | ECEA1JU220   | E. CAPACITOR 6.3V 22U     | 1   |         |
| C601-04  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 4   |         | C752      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C605     | ECED1AKG330  | E. CAPACITOR 10V 33U      | 1   |         | C753      | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C606, 07 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 2   |         | C761      | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C608     | ECEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         | C762      | ECUM1H050JCN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C609-14  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 6   |         | C763, 64  | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 2   |         |
| C615     | ECED1AKG330  | E. CAPACITOR 10V 33U      | 1   |         |           |              |                           |     |         |
| C616     | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1   |         |           |              |                           |     |         |
| C617     | ECED1AKG330  | E. CAPACITOR 10V 33U      | 1   |         |           |              |                           |     |         |
| C618-21  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 4   |         | B1        | MA151WK      | DIODE                     | 1   |         |
| C622     | ECED1AKG330  | E. CAPACITOR 10V 33U      | 1   |         | B5        | MA151K       | DIODE                     | 1   |         |
| C623, 24 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 2   |         | B7        | MA151WK      | DIODE                     | 1   |         |
| C626-31  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 6   |         | B8        | MA151WA      | DIODE                     | 1   |         |
| C633     | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1   |         | D201, 02  | MA335-R      | DIODE                     | 2   |         |
| C634     | ECEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         | D203, 04  | MA704        | DIODE                     | 2   |         |
| C635-38  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |         | D205      | MA151K       | DIODE                     | 1   |         |
| C639     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | D206      | MA151WA      | DIODE                     | 1   |         |
| C640     | ECED1JU101   | E. CAPACITOR 6.3V 100U    | 1   |         | D207      | MA151K       | DIODE                     | 1   |         |
| C641, 42 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | D501      | MA151K       | DIODE                     | 1   |         |
| C643     | ECED1JU330   | E. CAPACITOR 6.3V 33U     | 1   |         | D502      | MA151WK      | DIODE                     | 1   |         |
| C645     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | D601, 02  | MA704        | DIODE                     | 2   |         |
| C646     | ECED1JU330   | E. CAPACITOR 6.3V 33U     | 1   |         | D603      | 1S250        | DIODE                     | 1   |         |
| C647     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | D701      | MA151K       | DIODE                     | 1   |         |
| C648     | ECEA1H2R2    | E. CAPACITOR 50V 2.2U     | 1   |         | D702      | MA704        | DIODE                     | 1   |         |
| C649     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | D703      | MA151K       | DIODE                     | 1   |         |
| C650     | ECEA1CKG470  | E. CAPACITOR 16V 47U      | 1   |         | D704, 05  | MA153        | DIODE                     | 2   |         |
| C651-53  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         | D706, 07  | MA335-R      | DIODE                     | 2   |         |
| C655     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | D708      | MA151WA      | DIODE                     | 1   |         |
| C657     | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         | D709      | MA151WK      | DIODE                     | 1   |         |
| C658     | ECUM1H050JCN | C. CAPACITOR CH 50V 50P   | 1   |         | D710, 11  | MA151WA      | DIODE                     | 2   |         |

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| Ref.No.   | Part No.     | Part Name & Description | Pcs   | Remarks | Ref.No.  | Part No.     | Part Name & Description | Pcs   | Remarks |
|-----------|--------------|-------------------------|-------|---------|----------|--------------|-------------------------|-------|---------|
| D712      | PA151K       | DIODE                   | 1     |         | L18      | VLQEL05F101K | COIL                    | 100UH | 1       |
|           |              |                         |       |         | L19      | VLQEL05S221J | COIL                    | 220UH | 1       |
|           |              |                         |       |         | L28      | VLQEL05S470J | COIL                    | 470UH | 1       |
| DL1, L2   | VL00197      | DELAY                   | 2     |         | L201, 02 | VLQEL05F101K | COIL                    | 100UH | 2       |
| DL4       | VL00082      | DELAY LINE              | 1     |         | L204-06  | VLQEL05F101K | COIL                    | 100UH | 3       |
| DL201     | VL00082      | DELAY LINE              | 1     |         | L208, 09 | VLQEL05F101K | COIL                    | 100UH | 2       |
|           |              |                         |       |         | L212     | VLQEL05F101K | COIL                    | 100UH | 1       |
|           |              |                         |       |         | L214     | VLQEL05S180J | COIL                    | 180UH | 1       |
|           |              |                         |       |         | L215     | VLQEL05S4R7J | COIL                    | 4.7UH | 1       |
| FL201, 02 | VL00576      | FILTER                  | 2     |         | L216     | VLQEL05S181J | COIL                    | 180UH | 1       |
| FL401     | VL00576      | FILTER                  | 1     |         | L220, 21 | VLQEL05S560J | COIL                    | 560UH | 2       |
| FL501, 02 | VL00753      | FILTER                  | 2     |         | L401     | VLQEL05S470J | COIL                    | 470UH | 1       |
| FL601-04  | VL00576      | FILTER                  | 4     |         | L501, 02 | VLQEL05F101K | COIL                    | 100UH | 2       |
| FL605     | VL00754      | FILTER                  | 1     |         | L505     | VLQEL05F101K | COIL                    | 100UH | 1       |
|           |              |                         |       |         | L506     | VLQEL05S470J | COIL                    | 470UH | 1       |
|           |              |                         |       |         | L507     | VLQEL05F101K | COIL                    | 100UH | 1       |
|           |              |                         |       |         | L508     | VLQEL05S470J | COIL                    | 470UH | 1       |
| IC1       | MJM4558M     | IC                      | 1     |         | L509, 10 | VLQEL05F101K | COIL                    | 100UH | 2       |
| IC2       | UCR0133      | IC                      | 1     |         | L513     | VLQEL05S471J | COIL                    | 470UH | 1       |
| IC3       | UPD4053BG    | IC                      | 1     |         | L601-03  | VL00017      | COIL                    |       | 3       |
| IC4       | AN91A129     | IC                      | 1     |         | L604     | VLQEL05S221K | COIL                    | 220UH | 1       |
| IC11      | AN78M09      | IC                      | 1     |         | L606, 07 | VLQEL05F101K | COIL                    | 100UH | 2       |
| IC12      | AN78L07      | IC                      | 1     |         | L608     | VLQEL05S820J | COIL                    | 820UH | 1       |
| IC13      | AN78N05      | IC                      | 1     |         | L701     | VLQEL05F101K | COIL                    | 100UH | 1       |
| IC14      | AN78N09      | IC                      | 1     |         | L703, 04 | VLQEL05F101K | COIL                    | 100UH | 2       |
| IC15      | AN78N05F     | IC                      | 1     |         | L705     | VLQEL05S3R3J | COIL                    | 3.3UH | 1       |
| IC201     | UPD4053BG    | IC                      | 1     |         | L706     | VLQEL05S1R5J | COIL                    | 1.5UH | 1       |
| IC205     | AN612        | IC                      | 1     |         | L707     | VLQEL05S560J | COIL                    | 560UH | 1       |
| IC206     | MC74HC4053F  | IC                      | 1     |         |          |              |                         |       |         |
| IC207     | TL082CPS     | IC                      | 1     |         |          |              |                         |       |         |
| IC209     | UPD4053BG    | IC                      | 1     |         | Q1       | 2SC2295      | TRANSISTOR CHIP         | 1     | (B,C)   |
| IC210     | AE5539D      | IC                      | 1     |         | Q2       | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC211, 12 | UPD4053BG    | IC                      | 2     |         | Q3       | 2SB709       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC214     | AN6041       | IC                      | 1     |         | Q4       | UN2112       | TRANSISTOR-RESISTOR     | 1     |         |
| IC215, 16 | UPD4053BG    | IC                      | 2     |         | Q5       | 2SK374       | TRANSISTOR              | 1     |         |
| IC217     | TL082CPS     | IC                      | 1     |         | Q6       | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC218     | UPD4053BG    | IC                      | 1     |         | Q7       | 2SB709       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC219, 20 | TL082CPS     | IC                      | 2     |         | Q8       | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC224     | LM311M       | IC                      | 1     |         | Q9       | 2SC2295      | TRANSISTOR CHIP         | 1     | (B,C)   |
| IC401     | TC74HC221AF  | IC                      | 1     |         | Q10      | 2SC3757      | TRANSISTOR              | 1     | (Q,R)   |
| IC402     | SN74LS221NS  | IC                      | 1     |         | Q11      | 2SB709       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC403     | UPD65013RC16 | IC                      | 1     |         | Q12-15   | 2SC2295      | TRANSISTOR CHIP         | 4     | (B,C)   |
| IC404     | MC74HC04AF   | IC                      | 1     |         | Q17      | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC501     | TL082CPS     | IC                      | 1     |         | Q58      | 2SC2295      | TRANSISTOR              | 1     | (B)     |
| IC503     | MC74HC4053F  | IC                      | 1     |         | Q59      | 2SB709       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC505     | AN91A128     | IC                      | 1     |         | Q60      | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC506     | AN78N09      | IC                      | 1     |         | Q61      | UN2112       | TRANSISTOR-RESISTOR     | 1     |         |
| IC507     | AN78N05      | IC                      | 1     |         | Q62      | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC508     | AN78N09      | IC                      | 1     |         | Q64      | UN2112       | TRANSISTOR-RESISTOR     | 1     |         |
| IC509     | AN78N05      | IC                      | 1     |         | Q201, 02 | 2SC2295      | TRANSISTOR CHIP         | 2     | (B,C)   |
| IC510     | UPD4053BG    | IC                      | 1     |         | Q203, 04 | 2SA1022-C    | TRANSISTOR CHIP         | 2     | (B,C)   |
| IC601, 02 | RA19211BWT   | IC                      | 2     |         | Q205     | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC603, 04 | UPD41101C-1  | IC                      | 2     |         | Q206     | 2SC2295      | TRANSISTOR CHIP         | 1     | (B,C)   |
| IC605     | MC74HC574F   | IC                      | 1     |         | Q207     | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC606     | RA19510      | IC                      | 1     |         | Q209     | 2SC2295      | TRANSISTOR CHIP         | 1     | (B,C)   |
| IC607     | AC3415M      | IC                      | 1     |         | Q210     | 2SA1022-C    | TRANSISTOR CHIP         | 1     | (B,C)   |
| IC609     | AN78L05      | IC                      | 1     |         | Q212     | 2SC2295      | TRANSISTOR CHIP         | 1     | (B,C)   |
| IC610     | MM2233BWA    | IC                      | 1     |         | Q213     | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC703     | SN74LS221NS  | IC                      | 1     |         | Q214, 15 | 2SB709       | TRANSISTOR CHIP         | 2     | (Q,R)   |
| IC704     | MC74HC157AF  | IC                      | 1     |         | Q216     | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC705     | MC74HC74AF   | IC                      | 1     |         | Q217     | 2SC2295      | TRANSISTOR CHIP         | 1     | (B,C)   |
| IC706     | TL082CPS     | IC                      | 1     |         | Q218     | 2SA1022-C    | TRANSISTOR CHIP         | 1     | (B,C)   |
| IC707     | MC74HC4053F  | IC                      | 1     |         | Q219     | 2SB709       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC708     | TL084CNS     | IC                      | 1     |         | Q230     | 2SB709       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC709     | MC74HC00AF   | IC                      | 1     |         | Q231, 32 | 2SD601       | TRANSISTOR CHIP         | 2     | (Q,R)   |
| IC710     | SN74LS221NS  | IC                      | 1     |         | Q233     | 2SC2404      | TRANSISTOR CHIP         | 1     | (C,D)   |
| IC711     | MC74HC04AF   | IC                      | 1     |         | Q234     | 2SB709       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC712     | MC74HC14AF   | IC                      | 1     |         | Q235, 36 | 2SD601       | TRANSISTOR CHIP         | 2     | (Q,R)   |
| IC713     | UPD65013RC25 | IC                      | 1     |         | Q237     | 2SC2404      | TRANSISTOR CHIP         | 1     | (C,D)   |
| IC714     | MC74HC163F   | IC                      | 1     |         | Q238, 39 | 2SB709       | TRANSISTOR CHIP         | 2     | (Q,R)   |
|           |              |                         |       |         | Q240     | UN2112       | TRANSISTOR-RESISTOR     | 1     |         |
|           |              |                         |       |         | Q241, 42 | 2SB709       | TRANSISTOR CHIP         | 2     | (Q,R)   |
|           |              |                         |       |         | Q243     | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| L1-L6     | VLQEL05F101K | COIL                    | 100UH | 6       | Q401, 02 | UN2112       | TRANSISTOR-RESISTOR     | 2     |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| R298    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R513    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R299,00 | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 2   |         | R514    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R301    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | R515    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R302    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R516    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R303    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R517    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R304    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R518    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R305    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R519    | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1   |         |
| R306,07 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         | R520    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R308    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R521    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R309    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R522    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R310    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R523    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R311    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R524    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R312    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R525    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R313    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R526    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R314    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R527    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R315,16 | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 2   |         | R528    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R317    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R529    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R318    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R530    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R319    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R531    | ERJ6GEYJ820 | M.RESISTOR CH 1/10W      | 1   |         |
| R320    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | R532    | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 1   |         |
| R321    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R533,34 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R322    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R535    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R323    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R536    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R324    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R537    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R325    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R538    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R326,27 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         | R539    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R328    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R540    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R330    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R541    | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1   |         |
| R331    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R542    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R332    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R543    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R333    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R544    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R334    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R545    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R335    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R546    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R336    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R547    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R337    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R548    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R338,39 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         | R549    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R340    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R550    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R341    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R552-54 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 3   |         |
| R342-44 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | R555    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R345    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R556    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R346    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R557    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R347    | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | R558    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R348    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R562,63 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R349,50 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R564    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R351    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R565    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R353    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | R566    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R354    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R567    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R362    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R569    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R363    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R571    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R364    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R572    | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R365    | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | R573    | ERJ6GEYJ750 | M.RESISTOR CH 1/10W 75   | 1   |         |
| R366    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R574    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R367    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R575    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R374    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R576    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R401    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R577    | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R402    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R578    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R403    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R579    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R404    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R580    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R405,06 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R581    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R409    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1   |         | R582-84 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R411    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1   |         | R585,86 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R412,13 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R587,88 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R414    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1   |         | R589    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R416    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R601,02 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R501    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R603-10 | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 8   |         |
| R502    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         | R613    | VRE0034E361 | M.RESISTOR CH 1/10W 360  | 1   |         |
| R503    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R614,15 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R504    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         | R616    | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R505    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R617    | VRE0034E202 | M.RESISTOR CH 1/10W 2K   | 1   |         |
| R506    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R618    | VRE0034E152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R508    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1   |         | R620    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R509    | ERJ6GEYJ820 | M.RESISTOR CH 1/10W 82   | 1   |         | R621    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R510    | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 1   |         | R622    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R511    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R623,24 | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R512    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R625    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |

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| Ref.No. | Part No.  | Part Name & Description             | Pcs | Remarks     | Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks |
|---------|-----------|-------------------------------------|-----|-------------|----------|--------------|----------------------------|-----|---------|
|         | VEP82061A | P.C. BOARD W/COMPONENTS<br>MS SERVO |     | FOR AD-65-P | C131     | ECEA1EN220S  | E. CAPACITOR 25V 22U       | 1   |         |
|         |           |                                     |     |             | C132     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U     | 1   |         |
|         |           |                                     |     |             | C133-36  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 4   |         |
|         |           |                                     |     |             | C137     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
|         |           |                                     |     |             | C138     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |           |                                     |     |             | C139     | ECQM1H822JF  | P. CAPACITOR 50V 8200P     | 1   |         |
|         |           |                                     |     |             | C140     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P  | 1   |         |
|         |           |                                     |     |             | C141     | ECEA1HN010S  | E. CAPACITOR 50V 1U        | 1   |         |
|         |           |                                     |     |             | C142     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
|         |           |                                     |     |             | C143     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |           |                                     |     |             | C144     | ECEA1CU220   | E. CAPACITOR 16V 22U       | 1   |         |
|         |           |                                     |     |             | C145     | ECEA1AU470   | E. CAPACITOR 10V 47U       | 1   |         |
|         |           |                                     |     |             | C146     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |           |                                     |     |             | C147     | ECEA1HUR47   | E. CAPACITOR 50V 0.47U     | 1   |         |
|         |           |                                     |     |             | C148     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |           |                                     |     |             | C149, 50 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |           |                                     |     |             | C151     | ECEA1HN010S  | E. CAPACITOR 50V 1U        | 1   |         |
|         |           |                                     |     |             | C152, 53 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |           |                                     |     |             | C154     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
|         |           |                                     |     |             | C155     | ECEA1HN100S  | E. CAPACITOR 50V 100U      | 1   |         |
|         |           |                                     |     |             | C156     | ECEA1HUR47   | E. CAPACITOR 50V 0.47U     | 1   |         |
|         |           |                                     |     |             | C157, 58 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |           |                                     |     |             | C159     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |           |                                     |     |             | C160     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |           |                                     |     |             | C161     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |           |                                     |     |             | C162, 63 | ECQM1H103JF  | P. CAPACITOR 50V 0.01U     | 2   |         |
|         |           |                                     |     |             | C164     | ECEA1HUR47   | E. CAPACITOR 50V 4.7U      | 1   |         |
|         |           |                                     |     |             | C165-67  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |           |                                     |     |             | C168     | ECEA1EU100   | E. CAPACITOR 25V 10U       | 1   |         |
|         |           |                                     |     |             | C169     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U     | 1   |         |
|         |           |                                     |     |             | C170     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P   | 1   |         |
|         |           |                                     |     |             | C171, 72 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |           |                                     |     |             | C173     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P   | 1   |         |
|         |           |                                     |     |             | C174     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |           |                                     |     |             | C175     | ECEA1HUR2    | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |           |                                     |     |             | C176     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |           |                                     |     |             | C177     | ECQM1H222JF  | P. CAPACITOR 50V 2200P     | 1   |         |
|         |           |                                     |     |             | C179     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P   | 1   |         |
|         |           |                                     |     |             | C301     | ECEA1AU330   | E. CAPACITOR 10V 33U       | 1   |         |
|         |           |                                     |     |             | C302     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |           |                                     |     |             | C303     | ECQM1H562JF  | P. CAPACITOR 50V 5600P     | 1   |         |
|         |           |                                     |     |             | C304     | ECQM1H392JF  | P. CAPACITOR 50V 3900P     | 1   |         |
|         |           |                                     |     |             | C305     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |           |                                     |     |             | C306     | ECQM1H123JF  | P. CAPACITOR 50V 0.012U    | 1   |         |
|         |           |                                     |     |             | C307     | ECEA1CN470S  | E. CAPACITOR 16V 47U       | 1   |         |
|         |           |                                     |     |             | C308     | ECEA1UJ221   | E. CAPACITOR 6.3V 220U     | 1   |         |
|         |           |                                     |     |             | C309     | ECEA1HUR2    | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |           |                                     |     |             | C310     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |           |                                     |     |             | C311     | ECUM1H153KBN | C. CAPACITOR CH 50V 0.015U | 1   |         |
|         |           |                                     |     |             | C312     | ECEA1HN010S  | E. CAPACITOR 50V 1U        | 1   |         |
|         |           |                                     |     |             | C313, 14 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |           |                                     |     |             | C315     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |           |                                     |     |             | C316     | ECUM1E273KBN | C. CAPACITOR CH 25V 0.027U | 1   |         |
|         |           |                                     |     |             | C317     | ECEA1HN2R2S  | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |           |                                     |     |             | C318-20  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |           |                                     |     |             | C321     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         |
|         |           |                                     |     |             | C322     | ECEA1UJ470   | E. CAPACITOR 6.3V 47U      | 1   |         |
|         |           |                                     |     |             | C323     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |           |                                     |     |             | C324     | ECEA1UJ102   | E. CAPACITOR 6.3V 1000U    | 1   |         |
|         |           |                                     |     |             | C327     | ECEA1HUR2    | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |           |                                     |     |             | C330-36  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 7   |         |
|         |           |                                     |     |             | C338, 39 | ECEA1CU100   | E. CAPACITOR 16V 10U       | 2   |         |
|         |           |                                     |     |             | C342     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |           |                                     |     |             | C401-03  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |           |                                     |     |             | C406     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |           |                                     |     |             | C408-10  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |           |                                     |     |             | C454     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |           |                                     |     |             | C492     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |           |                                     |     |             | C495, 96 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |           |                                     |     |             | C501     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |           |                                     |     |             | C502     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |           |                                     |     |             | C503     | ECEA1ESS471  | E. CAPACITOR 25V 470U      | 1   |         |
|         |           |                                     |     |             | C504     | ECUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1   |         |
|         |           |                                     |     |             | C505     | ECUM1H561JCN | C. CAPACITOR CH 50V 560P   | 1   |         |
|         |           |                                     |     |             | C506     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P    | 1   |         |

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| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks | Ref.No.   | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|-----------|--------------|-------------------------|-----|---------|
| C507     | ECUM1H561JCN | C.CAPACITOR CH 50V 560P   | 1   |         | D341      | MA151K       | DIODE                   | 1   |         |
| C508     | ECEA1HU010   | E.CAPACITOR 50V .1U       | 1   |         | D345, 46  | MA151WA      | DIODE                   | 2   |         |
| C509-13  | ECEA1ESS101  | E.CAPACITOR 25V 100U      | 5   |         | D349      | MA151WK      | DIODE                   | 1   |         |
| C514     | ECQM1H104JF  | P.CAPACITOR 50V 0.1U      | 1   |         | D351      | MA151K       | DIODE                   | 1   |         |
| C515     | ECEA1EU4R7   | E.CAPACITOR 25V 4.7U      | 1   |         | D501      | MA151K       | DIODE                   | 1   |         |
| C516-18  | ECEA1HN4R7S  | E.CAPACITOR 50V 4.7U      | 3   |         | D502      | MA151WK      | DIODE                   | 1   |         |
| C519     | ECEA1HU010   | E.CAPACITOR 50V .1U       | 1   |         | D503      | MA153        | DIODE                   | 1   |         |
| C520-22  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U  | 3   |         | D504      | MA151WK      | DIODE                   | 1   |         |
| C523     | ECQM1H104JF  | P.CAPACITOR 50V 0.1U      | 1   |         | D505, 06  | MA151K       | DIODE                   | 2   |         |
| C524     | ECEA1EU4R7   | E.CAPACITOR 25V 4.7U      | 1   |         | D507      | MA151WK      | DIODE                   | 1   |         |
| C525, 26 | ECEA1HN4R7S  | E.CAPACITOR 50V 4.7U      | 2   |         | D508, 09  | MA151K       | DIODE                   | 2   |         |
| C527     | ECQM1H104JF  | P.CAPACITOR 50V 0.1U      | 1   |         | D510      | MA151WK      | DIODE                   | 1   |         |
| C528     | ECEA1HU010   | E.CAPACITOR 50V .1U       | 1   |         | D511      | MA151K       | DIODE                   | 1   |         |
| C529-31  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U  | 3   |         | D514-17   | MA701A       | DIODE                   | 4   |         |
| C532     | ECEA1EU4R7   | E.CAPACITOR 25V 4.7U      | 1   |         | D572      | MA151K       | DIODE                   | 1   |         |
| C533, 34 | ECEA1HN4R7S  | E.CAPACITOR 50V 4.7U      | 2   |         |           |              |                         |     |         |
| C535     | ECQM1H104JF  | P.CAPACITOR 50V 0.1U      | 1   |         |           |              |                         |     |         |
| C536     | ECEA1HU010   | E.CAPACITOR 50V .1U       | 1   |         |           |              |                         |     |         |
| C537-39  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U  | 3   |         |           |              |                         |     |         |
| C540     | ECEA1EU4R7   | E.CAPACITOR 25V 4.7U      | 1   |         | IC1       | LM2904M      | IC                      | 1   |         |
| C541-43  | ECEA1HN4R7S  | E.CAPACITOR 50V 4.7U      | 3   |         | IC2       | LM2903M      | IC                      | 1   |         |
| C544     | ECQM1H104JF  | P.CAPACITOR 50V 0.1U      | 1   |         | IC3       | LM2904M      | IC                      | 1   |         |
| C545     | ECEA1HU010   | E.CAPACITOR 50V .1U       | 1   |         | IC4       | NJM4558M     | IC                      | 1   |         |
| C546-48  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U  | 3   |         | IC5       | MC14538BF    | IC                      | 1   |         |
| C549     | ECEA1AU470   | E.CAPACITOR 10V 47U       | 1   |         | IC6       | UPD65031F405 | IC                      | 1   |         |
| C550     | ECUM1E473KBN | C.CAPACITOR CH 25V 0.047U | 1   |         | IC7       | HN53015V2W   | IC                      | 1   |         |
| C551     | ECEA1HN4R7S  | E.CAPACITOR 50V 4.7U      | 1   |         | IC8       | MC14049UBF   | IC                      | 1   |         |
| C552     | ECQM1H104JF  | P.CAPACITOR 50V 0.1U      | 1   |         | IC9       | MC14013BF    | IC                      | 1   |         |
| C553     | ECEA1HN4R7S  | E.CAPACITOR 50V 4.7U      | 1   |         | IC10      | MM74HC221AM  | IC                      | 1   |         |
| C558-63  | ECQM1H104JF  | P.CAPACITOR 50V 0.1U      | 1   |         | IC11      | AN78L05      | IC                      | 1   |         |
| C902-06  | ECUM1H1032FN | C.CAPACITOR CH 50V 0.01U  | 5   |         | IC12      | MC14021BF    | IC                      | 1   |         |
| C909     | ECUM1H1032FN | C.CAPACITOR CH 50V 0.01U  | 1   |         | IC13      | MC14094BF    | IC                      | 1   |         |
|          |              |                           |     |         | IC14      | MC14053BF    | IC                      | 1   | (R)     |
|          |              |                           |     |         | IC15      | MC14049UBF   | IC                      | 1   |         |
|          |              |                           |     |         | IC16      | MC14050BF    | IC                      | 1   |         |
|          |              |                           |     |         | IC17      | SN74LS01NS   | IC                      | 1   |         |
|          |              |                           |     |         | IC18      | HN51020VZZ   | IC                      | 1   |         |
| D1       | MA151K       | DIODE                     | 1   |         | IC101     | LM2904M      | IC                      | 1   |         |
| D4       | MA151K       | DIODE                     | 1   |         | IC102     | LM2903M      | IC                      | 1   |         |
| D101     | MA151K       | DIODE                     | 1   |         | IC103     | LM2904M      | IC                      | 1   |         |
| D102     | MA153        | DIODE                     | 1   |         | IC104     | MC14538BF    | IC                      | 1   |         |
| D103     | MA151WK      | DIODE                     | 1   |         | IC105     | AN79109      | IC                      | 1   |         |
| D104     | MA151K       | DIODE                     | 1   |         | IC106     | AN78R09      | IC                      | 1   |         |
| D105     | MA151WK      | DIODE                     | 1   |         | IC107     | DN74LS293S   | IC                      | 1   |         |
| D106, 07 | MA151WA      | DIODE                     | 2   |         | IC108     | MC74HC00AF   | IC                      | 1   |         |
| D108     | MA151K       | DIODE                     | 1   |         | IC109     | HN6064R      | IC                      | 1   |         |
| D109     | MA151WK      | DIODE                     | 1   |         | IC110     | MM6168VIA    | IC                      | 1   |         |
| D110, 11 | MA153        | DIODE                     | 2   |         | IC111     | MC74HC04F    | IC                      | 1   |         |
| D112     | MA151WK      | DIODE                     | 1   |         | IC112     | MC14049UBF   | IC                      | 1   |         |
| D113, 14 | MA151K       | DIODE                     | 2   |         | IC113, 14 | LM2904M      | IC                      | 2   |         |
| D115     | MA153        | DIODE                     | 1   |         | IC115     | LM2903M      | IC                      | 1   |         |
| D116     | MA151K       | DIODE                     | 1   |         | IC116, 17 | LM2904M      | IC                      | 1   |         |
| D119     | MA151WK      | DIODE                     | 1   |         | IC118-20  | MC14066BF    | IC                      | 3   |         |
| D120-22  | MA151WA      | DIODE                     | 3   |         | IC121     | MC14052BF    | IC                      | 1   |         |
| D123     | MA151K       | DIODE                     | 1   |         | IC122, 23 | MC14053BF    | IC                      | 2   | (R)     |
| D125     | MA151K       | DIODE                     | 1   |         | IC124     | HN53030VYA   | IC                      | 1   |         |
| D126, 27 | MA153        | DIODE                     | 2   |         | IC125     | HN53007VYC   | IC                      | 1   |         |
| D128     | MA151WA      | DIODE                     | 1   |         | IC126     | UPC4558G     | IC                      | 1   |         |
| D129     | MA151K       | DIODE                     | 1   |         | IC128     | NJM4558M     | IC                      | 1   |         |
| D301, 02 | MA151K       | DIODE                     | 2   |         | IC129     | MC14538BF    | IC                      | 1   |         |
| D303     | MA151WK      | DIODE                     | 1   |         | IC130     | MC14013BF    | IC                      | 1   |         |
| D304     | MA151WA      | DIODE                     | 1   |         | IC131     | LM2904M      | IC                      | 1   |         |
| D305     | MA151K       | DIODE                     | 1   |         | IC132     | UPC4558G     | IC                      | 1   |         |
| D307     | MA151WA      | DIODE                     | 1   |         | IC133     | MM4030BS     | IC                      | 1   |         |
| D309     | MA151WK      | DIODE                     | 1   |         | IC134     | MC14538BF    | IC                      | 1   |         |
| D310     | MA151K       | DIODE                     | 1   |         | IC135     | MC14053BF    | IC                      | 1   | (R)     |
| D313     | MA151WA      | DIODE                     | 1   |         | IC136     | MC74HC02AF   | IC                      | 1   |         |
| D314-17  | MA151WK      | DIODE                     | 4   |         | IC137     | MC14538BF    | IC                      | 1   |         |
| D318     | MA151K       | DIODE                     | 1   |         | IC301     | AN78L05      | IC                      | 1   |         |
| D319, 20 | MA151WK      | DIODE                     | 2   |         | IC302     | LM2904M      | IC                      | 1   |         |
| D321, 22 | MA151K       | DIODE                     | 1   |         | IC303     | LM2902M      | IC                      | 1   |         |
| D323, 24 | MA151WK      | DIODE                     | 2   |         | IC304     | MC14053BF    | IC                      | 1   | (R)     |
| D325     | MA151K       | DIODE                     | 1   |         | IC305     | MC14066BF    | IC                      | 1   |         |
| D330     | MA151K       | DIODE                     | 1   |         | IC306     | LM2904M      | IC                      | 1   |         |
| D333     | MA151WK      | DIODE                     | 1   |         | IC307     | LM2902M      | IC                      | 1   |         |
| D334-38  | MA151K       | DIODE                     | 5   |         | IC308, 09 | LM2904M      | IC                      | 2   |         |
| D340     | MA151WA      | DIODE                     | 1   |         |           |              |                         |     |         |

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| Ref.No.  | Part No.     | Part Name & Description | Pcs     | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|--------------|-------------------------|---------|---------|---------|-------------|--------------------------|-----|---------|
| IC310-13 | MC14056BF    | IC                      | 4       |         | R9      | ERJ6GEYJ125 | M.RESISTOR CH1/10W 1.2M  | 1   |         |
| IC314    | MC14028BF    | IC                      | 1       |         | R10     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| IC315    | MC14081BF    | IC                      | 1       |         | R11,12  | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| IC316    | NJM2901M     | IC                      | 1       |         | R13     | ERJ6GEYJ123 | M.RESISTOR CH1/10W 12K   | 1   |         |
| IC318    | MC14538BF    | IC                      | 1       |         | R14     | ERJ6GEYJ623 | M.RESISTOR CH 1/10W 62K  | 1   |         |
| IC319    | MC14049UBF   | IC                      | 1       |         | R15     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| IC501    | BA6149LS     | IC                      | 1       |         | R16     | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         |
| IC502    | PU4213       | IC                      | 1       |         | R17     | ERJ6GEYJ622 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| IC503-06 | AN3821K      | IC                      | 4       |         | R18,19  | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 2   |         |
| IC800    | LM290-#4     | IC                      | 1       |         | R20     | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
|          |              |                         |         |         | R21     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
|          |              |                         |         |         | R22     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
|          |              |                         |         |         | R23     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
|          |              |                         |         |         | R24     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| L1       | VLP0017      | COIL                    | 1       |         | R25     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| L2-14    | VLQEL05S221J | COIL 220UH              | 3       |         | R27     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| L101,02  | VLQEL05S221J | COIL 220UH              | 2       |         | R28-31  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 4   |         |
| L501     | VLQ0214      | COIL 500UH              | 1       |         | R34,35  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| L504-07  | VLQ0129      | COIL 300UH              | 4       |         | R36     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
|          |              |                         |         |         | R37-44  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 8   |         |
|          |              |                         |         |         | R45     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
|          |              |                         |         |         | R50     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| Q1, Q2   | UN2213       | TRANSISTOR-RESISTOR     | 2       |         | R51     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q5-Q9    | UN2213       | TRANSISTOR-RESISTOR     | 5       |         | R52     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| Q12-16   | UN2213       | TRANSISTOR-RESISTOR     | 5       |         | R53     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| Q101     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         | R54     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q102     | UN2213       | TRANSISTOR-RESISTOR     | 1       |         | R55     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| Q103     | 2SJ43        | TRANSISTOR              | 1       |         | R56     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| Q104     | UN2213       | TRANSISTOR-RESISTOR     | 1       |         | R57     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q105     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         | R58     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| Q106-08  | UN2213       | TRANSISTOR-RESISTOR     | 3       |         | R59     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q109     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         | R60     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q110-19  | UN2213       | TRANSISTOR-RESISTOR     | 10      |         | R61     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q120     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         | R62     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q121     | UN2213       | TRANSISTOR-RESISTOR     | 1       |         | R64     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| Q122     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         | R65     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| Q123,24  | UN2213       | TRANSISTOR-RESISTOR     | 2       |         | R69,70  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| Q125     | 2SB709       | TRANSISTOR CHIP         | 1 (Q,R) |         | R101    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q126     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         | R102    | ERJ6GEYJ184 | M.RESISTOR CH1/10W 180K  | 1   |         |
| Q127     | UN2115       | COMBINATION PARTS       | 1       |         | R103    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q128     | UN2213       | TRANSISTOR-RESISTOR     | 1       |         | R104    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| Q129     | UN2214       | TRANSISTOR-RESISTOR     | 1       |         | R105-07 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         |
| Q130     | 2SK374       | TRANSISTOR              | 1       |         | R108    | ERJ6GEYJ184 | M.RESISTOR CH1/10W 180K  | 1   |         |
| Q131-33  | UN2213       | TRANSISTOR-RESISTOR     | 3       |         | R109    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q134,35  | 2SB709       | TRANSISTOR CHIP         | 2 (Q,R) |         | R110    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| Q136-39  | UN2213       | TRANSISTOR-RESISTOR     | 4       |         | R111    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q301,02  | UN2213       | TRANSISTOR-RESISTOR     | 2       |         | R112    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| Q303     | UN2113       | TRANSISTOR-RESISTOR     | 1       |         | R113    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| Q304     | UN2213       | TRANSISTOR-RESISTOR     | 1       |         | R114    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| Q305     | UN2113       | TRANSISTOR-RESISTOR     | 1       |         | R115    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| Q306-09  | UN2213       | TRANSISTOR-RESISTOR     | 4       |         | R116    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| Q312-14  | UN2213       | TRANSISTOR-RESISTOR     | 3       |         | R117    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| Q316     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         | R118    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q317     | UN2213       | TRANSISTOR-RESISTOR     | 1       |         | R119    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| Q319     | 2SD601       | TRANSISTOR CHIP         | 1 (Q,R) |         | R120    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q320     | UN2213       | TRANSISTOR-RESISTOR     | 1       |         | R121,22 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| Q336,37  | UN2213       | TRANSISTOR-RESISTOR     | 2       |         | R123    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| Q340     | UN2213       | TRANSISTOR-RESISTOR     | 1       |         | R124    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| Q343     | UN2213       | TRANSISTOR-RESISTOR     | 1       |         | R125    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q346,47  | UN2213       | TRANSISTOR-RESISTOR     | 2       |         | R126-32 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 7   |         |
| Q501-04  | 2SB709       | TRANSISTOR CHIP         | 4 (Q,R) |         | R133,34 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| Q505     | UN2113       | TRANSISTOR-RESISTOR     | 1       |         | R135,36 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| Q506     | UN2213       | TRANSISTOR-RESISTOR     | 1       |         | R137    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q507     | UN2113       | TRANSISTOR-RESISTOR     | 1       |         | R138    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| Q508,09  | UN2213       | TRANSISTOR-RESISTOR     | 2       |         | R139    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
|          |              |                         |         |         | R140    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
|          |              |                         |         |         | R141    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
|          |              | RESISTORS               |         |         | R142    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R1       | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K | 1       |         | R143    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R2       | ERJ6GEYJ683  | M.RESISTOR CH 1/10W 68K | 1       |         | R144    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R3       | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K | 1       |         | R145    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R4       | ERJ6GEYJ105  | M.RESISTOR CH 1/10W 1M  | 1       |         | R146    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R5,R6    | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K | 2       |         | R147,48 | ERJ6GEYJ273 | M.RESISTOR CH1/10W 27K   | 2   |         |
| R7       | ERJ6GEYJ155  | M.RESISTOR CH1/10W 1.5M | 1       |         | R149    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R8       | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K | 1       |         | R150    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |

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| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R151     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R253     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R152     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         | R254-58  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         |
| R153     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R259     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R154-56  | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 3   |         | R260     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R157     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R261     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R158     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R262     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R159     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R263     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R160     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R264     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R161     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R265     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R162     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R266-69  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 4   |         |
| R163     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R270     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R164     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R271     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R165     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R273     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R166     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R274     | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R167     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R275     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R168     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R276, 77 | VRB0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R169     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R278     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R170, 71 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         | R279-81  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 3   |         |
| R172     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R282     | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         |
| R181, 82 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         | R283     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R183     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R284     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R184     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R285     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R185     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R286, 87 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R186     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R288     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R187, 88 | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 2   |         | R289     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R189     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | R301     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R190     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R302, 08 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R191, 92 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         | R304     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R193, 94 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         | R305     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R195     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R306     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R196     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R307     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R197     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R308     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R198     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | R309     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R199     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R310     | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R200     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R311     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R201     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R312     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R202     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R313     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R203     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | R314     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R204     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R315, 16 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R205     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R317     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R206     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R318     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R207-09  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         | R319     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R210     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R320     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R211     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R321     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R212     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R322     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R213-15  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 3   |         | R325, 26 | VRB0034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R216     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R327     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R218     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R328     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R219     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R329     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R220     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R330     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R222-27  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 6   |         | R331     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R228     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R332, 33 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R229     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R334     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R230     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R335     | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R231     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R336     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R232     | VRB0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R337, 38 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R233     | VRB0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R339, 40 | VRB0034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R234     | VRB0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R341     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R235     | VRB0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R342     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R236     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R343     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R237     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         | R344     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R238     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R345     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R239     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R346     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R240     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R347     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R241     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R348     | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R242     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | R349, 50 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R243     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R351     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R244, 45 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R352-55  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         |
| R246     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R356     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R247     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R357     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R248     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R358     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R249     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | R359, 60 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R250     | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         | R362, 63 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R251     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R365     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R252     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R366     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |

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| Ref.No. | Part No.     | Part Name & Description    | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks |
|---------|--------------|----------------------------|-----|---------|----------|--------------|-------------------------|-----|---------|
| C508    | ECEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         | D334-37  | MA151K       | DIODE                   | 4   |         |
| C509-13 | ECEA1ESS101  | E. CAPACITOR 25V 100U      | 1   |         | D338     | MA151WK      | DIODE                   | 1   |         |
| C514    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D340     | MA151WA      | DIODE                   | 1   |         |
| C515    | ECEA1EU4R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D341     | MA151K       | DIODE                   | 1   |         |
| C516-18 | ECEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 3   |         | D349-51  | MA165        | DIODE                   | 3   |         |
| C519    | ECEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         | D501     | MA151K       | DIODE                   | 1   |         |
| C520-22 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D502     | MA151WK      | DIODE                   | 1   |         |
| C523    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D503     | MA153        | DIODE                   | 1   |         |
| C524    | ECEA1EU4R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D504     | MA151WK      | DIODE                   | 1   |         |
| C525,26 | ECEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 2   |         | D505,06  | MA151K       | DIODE                   | 2   |         |
| C527    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D507     | MA151WK      | DIODE                   | 1   |         |
| C528    | ECEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         | D508,09  | MA151K       | DIODE                   | 2   |         |
| C529-31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D510     | MA151WK      | DIODE                   | 1   |         |
| C532    | ECEA1EU4R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D511     | MA151K       | DIODE                   | 1   |         |
| C533,34 | ECEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 2   |         | D514-17  | MA701A       | DIODE                   | 4   |         |
| C535    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D572     | MA151K       | DIODE                   | 1   |         |
| C536    | ECEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         |          |              |                         |     |         |
| C537-39 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         |          |              |                         |     |         |
| C540    | ECEA1EU4R7   | E. CAPACITOR 25V 4.7U      | 1   |         | IC1      | LM2904M      | IC                      | 1   |         |
| C541-43 | ECEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 3   |         | IC1      | MC74HC02AF   | IC                      | 1   |         |
| C544    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | IC2      | LM2903M      | IC                      | 1   |         |
| C545    | ECEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         | IC2      | MC74HC02AF   | IC                      | 1   |         |
| C546-48 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | IC3      | LM2904M      | IC                      | 1   |         |
| C549    | ECEA1AU470   | E. CAPACITOR 10V 47U       | 1   |         | IC4      | NJM4558M     | IC                      | 1   |         |
| C550    | ECUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1   |         | IC5      | MC14538BF    | IC                      | 1   |         |
| C551    | ECEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 1   |         | IC6      | UPD65031F405 | IC                      | 1   |         |
| C552    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | IC7      | PM53015VZW   | IC                      | 1   |         |
| C553    | ECEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 1   |         | IC8      | MC14049UBF   | IC                      | 1   |         |
| C554    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | IC9      | MC14013BF    | IC                      | 1   |         |
| C555    | ECEA1VU101   | E. CAPACITOR 35V 100U      | 1   |         | IC10     | MM74HC221AM  | IC                      | 1   |         |
| C556-63 | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | IC11     | AN78L05      | IC                      | 1   |         |
| C900-11 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 12  |         | IC12     | MC14021BF    | IC                      | 1   |         |
|         |              |                            |     |         | IC13     | MC14094BF    | IC                      | 1   |         |
| D1      | MA151K       | DIODE                      | 1   |         | IC14     | UPD4053BG    | IC                      | 1   |         |
| D1      | MA151K       | DIODE                      | 1   |         | IC15     | MC14049UBF   | IC                      | 1   |         |
| D2, D3  | MA151WA      | DIODE                      | 2   |         | IC16     | MC14050BF    | IC                      | 1   |         |
| D4      | MA151K       | DIODE                      | 1   |         | IC18     | MM51020V22   | IC                      | 1   |         |
| D4-D6   | MA151K       | DIODE                      | 3   |         | IC101    | LM2904M      | IC                      | 1   |         |
| D101    | MA151K       | DIODE                      | 1   |         | IC102    | LM2903M      | IC                      | 1   |         |
| D102    | MA153        | DIODE                      | 1   |         | IC103    | LM2904M      | IC                      | 1   |         |
| D103    | MA151WK      | DIODE                      | 1   |         | IC104    | MC14538BF    | IC                      | 1   |         |
| D104    | MA151K       | DIODE                      | 1   |         | IC105    | AN79L09      | IC                      | 1   |         |
| D105    | MA151WK      | DIODE                      | 1   |         | IC106    | AN78N09      | IC                      | 1   |         |
| D106,07 | MA151WA      | DIODE                      | 2   |         | IC107    | DM74LS293S   | IC                      | 1   |         |
| D108    | MA151K       | DIODE                      | 1   |         | IC108    | MC74HC02AF   | IC                      | 1   |         |
| D109    | MA151WK      | DIODE                      | 1   |         | IC109    | MM6064R      | IC                      | 1   |         |
| D112    | MA151WK      | DIODE                      | 1   |         | IC110    | MM6168VIA    | IC                      | 1   |         |
| D113,14 | MA151K       | DIODE                      | 2   |         | IC111    | MC74HC04F    | IC                      | 1   |         |
| D115    | MA153        | DIODE                      | 1   |         | IC112    | MC14049UBF   | IC                      | 1   |         |
| D116    | MA151K       | DIODE                      | 1   |         | IC113,14 | LM2904M      | IC                      | 2   |         |
| D119    | MA151WK      | DIODE                      | 1   |         | IC115    | LM2903M      | IC                      | 1   |         |
| D120-22 | MA151WA      | DIODE                      | 3   |         | IC116,17 | LM2904M      | IC                      | 2   |         |
| D123    | MA151K       | DIODE                      | 1   |         | IC118-20 | MC14066BF    | IC                      | 3   |         |
| D124    | MA151WA      | DIODE                      | 1   |         | IC121    | UPD4052BG    | IC                      | 1   |         |
| D125    | MA151K       | DIODE                      | 1   |         | IC123    | UPD4053BG    | IC                      | 1   |         |
| D126,27 | MA153        | DIODE                      | 2   |         | IC124    | MM53030VYA   | IC                      | 1   |         |
| D301,02 | MA151K       | DIODE                      | 2   |         | IC125    | MM53007VYC   | IC                      | 1   |         |
| D303    | MA151WK      | DIODE                      | 1   |         | IC126    | UPC4558G     | IC                      | 1   |         |
| D304    | MA151WA      | DIODE                      | 1   |         | IC128    | NJM4558M     | IC                      | 1   |         |
| D305    | MA151K       | DIODE                      | 1   |         | IC129    | MC14538BF    | IC                      | 1   |         |
| D307    | MA151WA      | DIODE                      | 1   |         | IC130    | MC14013BF    | IC                      | 1   |         |
| D309    | MA151WK      | DIODE                      | 1   |         | IC131    | LM2904M      | IC                      | 1   |         |
| D310    | MA151K       | DIODE                      | 1   |         | IC132    | UPC4558G     | IC                      | 1   |         |
| D313    | MA151WA      | DIODE                      | 1   |         | IC133    | MM4030BS     | IC                      | 1   |         |
| D314-17 | MA151WK      | DIODE                      | 4   |         | IC134    | MC14538BF    | IC                      | 1   |         |
| D318    | MA151K       | DIODE                      | 1   |         | IC135    | UPD4053BG    | IC                      | 1   |         |
| D319,20 | MA151WK      | DIODE                      | 2   |         | IC137    | MC14538BF    | IC                      | 1   |         |
| D321,22 | MA151K       | DIODE                      | 2   |         | IC301    | AN78L05      | IC                      | 1   |         |
| D323,24 | MA151WK      | DIODE                      | 2   |         | IC302    | LM2904M      | IC                      | 1   |         |
| D325    | MA151K       | DIODE                      | 1   |         | IC303    | LM2902M      | IC                      | 1   |         |
| D328-30 | MA151K       | DIODE                      | 3   |         | IC304    | UPD4053BG    | IC                      | 1   |         |
| D332    | MA151K       | DIODE                      | 1   |         | IC305    | MC14066BF    | IC                      | 1   |         |
| D333    | MA151WK      | DIODE                      | 1   |         | IC306    | LM2904M      | IC                      | 1   |         |
|         |              |                            |     |         | IC307    | LM2902M      | IC                      | 1   |         |

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| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R143     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R260     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R144     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R261     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R145     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R262     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R146     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R263     | ERJ6GEYJ163 | M.RESISTOR CH 1/10W 16K  | 1   |         |
| R147, 48 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         | R264     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R150     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R265     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R151     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R266-69  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 4   |         |
| R152     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         | R270     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R153     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R271     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R154-56  | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 3   |         | R273     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R157     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R274     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R158     | ERJ6GEYJ163 | M.RESISTOR CH 1/10W 16K  | 1   |         | R275     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R159     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R276, 77 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R160     | ERJ6GEYJ163 | M.RESISTOR CH 1/10W 16K  | 1   |         | R278     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R161     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R279-82  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 4   |         |
| R162     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R283     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R163     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R284     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R164     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R285     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R165     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R286     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R166     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R301     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R167     | ERJ6GEYJ163 | M.RESISTOR CH 1/10W 16K  | 1   |         | R302, 03 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R168     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R304     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R169     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R305     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R170, 71 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         | R306     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R172     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R307     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R181, 82 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         | R308     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R183     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R309     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R184     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R310     | ERJ6GEYJ622 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R185     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R311     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R186     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R312     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R187, 88 | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 2   |         | R313     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R189     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | R314     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R190     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R315, 16 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R191, 92 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         | R317     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R193, 94 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         | R318     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R195     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R319     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R196     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R320     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R197     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R321     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R204     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R322     | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         |
| R205     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R325, 26 | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R206     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R327     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R207-09  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         | R328     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R210     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R329     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R211     | ERJ6GEYJ163 | M.RESISTOR CH 1/10W 16K  | 1   |         | R330     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R212     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R331     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R213-15  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 3   |         | R332, 33 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R216     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R334     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W      | 1   |         |
| R222-27  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 6   |         | R335     | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R228     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R336     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R229     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R337, 38 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R230     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R339, 40 | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R231     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R341     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R232     | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R342     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R233     | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R343     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R234     | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R344     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R235     | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R345     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R236     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R346     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R237     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         | R347     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R238     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R348     | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R239     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R349, 50 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R240     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R351     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R241     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R352-55  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         |
| R242     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | R356     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R243     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R357     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R244, 45 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R358     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R246     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R359-63  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         |
| R247     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R365     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R248     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R366     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R249     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | R367, 68 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R250     | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         | R369     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R251     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R370-74  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R252     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R376     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R253     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R378, 79 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R254-58  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         | R380     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R259     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R381     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs  | Remarks |
|---------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|------|---------|
| R382    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R553     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1    |         |
| R383    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R554     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1    |         |
| R386    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         | R555-57  | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 3    |         |
| R388    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                          |      |         |
| R389    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |          |             |                          |      |         |
| R390    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                          |      |         |
| R391    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | SW1,W2   | VSR0032     | VOLTAGE SELECT SWITCH    | 2    |         |
| R392,93 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |          |             |                          |      |         |
| R394,95 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |          |             |                          |      |         |
| R396,97 | VRE0034E472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |          |             |                          |      |         |
| R398    | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 33K  | 1   |         | TP3-P7   | VJR0582     | PACK PIN                 | 1    |         |
| R399    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | TP13     | VJR0582     | PACK PIN                 | 1    |         |
| R405    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | TP15-17  | VJR0582     | PACK PIN                 | 3    |         |
| R406    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP19,20  | VJR0582     | PACK PIN                 | 1    |         |
| R407    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | TP102-05 | VJR0582     | PACK PIN                 | 4    |         |
| R408,09 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | TP106-19 | VJR0582     | PACK PIN                 | 11   |         |
| R410    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | TP201,02 | VJR0582     | PACK PIN                 | 2    |         |
| R421    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 22K  | 1   |         | TP302-04 | VJR0582     | PACK PIN                 | 3    |         |
| R423    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 22K  | 1   |         | TP306    | VJR0582     | PACK PIN                 | 1    |         |
| R424    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | TP309-12 | VJR0582     | PACK PIN                 | 4    |         |
| R425    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | TPG1-G3  | VJR0582     | PACK PIN                 | 3    |         |
| R427    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |          |             |                          |      |         |
| R428    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                          |      |         |
| R431    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | VC101    | ECV12W30K53 | V.CAPACITOR              | 30P  | 1       |
| R432,33 | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 2   |         |          |             |                          |      |         |
| R434    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 33K  | 1   |         |          |             |                          |      |         |
| R435    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |      |         |
| R437    | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 68K  | 1   |         |          |             |                          |      |         |
| R440    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | VR1      | VRV0109B503 | V.RESISTOR               | 50K  | 1       |
| R441,42 | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 2   |         | VR3      | VRV0109B203 | V.RESISTOR               | 20K  | 1       |
| R443    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | VR101    | VRV0109B203 | V.RESISTOR               | 20K  | 1       |
| R463    | ERDS2TJ331  | C.RESISTOR 1/4W 33K      | 1   |         | VR102    | VRV0109B103 | V.RESISTOR               | 10K  | 1       |
| R469    | ERDS2TJ564  | C.RESISTOR 1/4W 56K      | 1   |         | VR103    | VRV0109B203 | V.RESISTOR               | 20K  | 1       |
| R470    | ERDS2TJ394  | C.RESISTOR 1/4W 39K      | 1   |         | VR104    | VRV0109B502 | V.RESISTOR               | 5K   | 1       |
| R501    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VR105    | VRV0109B104 | V.RESISTOR               | 100K | 1       |
| R502    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | VR301    | VRV0109B502 | V.RESISTOR               | 5K   | 1       |
| R503    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VR302,03 | VRV0109B202 | V.RESISTOR               | 2K   | 2       |
| R504-07 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 82K  | 4   |         | VR304-07 | VRV0109B503 | V.RESISTOR               | 50K  | 4       |
| R508    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | VR308    | VRV0109B202 | V.RESISTOR               | 2K   | 1       |
| R509-12 | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 39K  | 4   |         |          |             |                          |      |         |
| R513    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |      |         |
| R514    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 1   |         | X101     | VSK0081     | CRYSTAL OSCILLATOR       |      | 1       |
| R515    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | X501     | VSK0136     | CRYSTAL OSCILLATOR       |      | 1       |
| R516    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |      |         |
| R517    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |          |             |                          |      |         |
| R518    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                          |      |         |
| R519    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |          |             |                          |      |         |
| R520    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |          |             |                          |      |         |
| R521,22 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 2   |         |          |             |                          |      |         |
| R523    | ERX12SJR47  | M.RESISTOR 1/2W 0.47     | 1   |         |          |             |                          |      |         |
| R524    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |          |             |                          |      |         |
| R525    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |          |             |                          |      |         |
| R526    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |      |         |
| R527    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                          |      |         |
| R528    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                          |      |         |
| R529    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |          |             |                          |      |         |
| R530    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                          |      |         |
| R531    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                          |      |         |
| R532    | ERX12SJR68  | M.RESISTOR 1/2W 0.68     | 1   |         |          |             |                          |      |         |
| R533    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                          |      |         |
| R534    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |          |             |                          |      |         |
| R535    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |      |         |
| R536    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                          |      |         |
| R537    | ERX12SJR47  | M.RESISTOR 1/2W 0.47     | 1   |         |          |             |                          |      |         |
| R538-40 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 3   |         |          |             |                          |      |         |
| R541    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |          |             |                          |      |         |
| R542    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                          |      |         |
| R543    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |          |             |                          |      |         |
| R544    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                          |      |         |
| R545    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |      |         |
| R546    | ERX12SJR47  | M.RESISTOR 1/2W 0.47     | 1   |         |          |             |                          |      |         |
| R547-49 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 3   |         |          |             |                          |      |         |
| R550    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |          |             |                          |      |         |
| R551    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                          |      |         |
| R552    | ERX1ANJ6R8  | M.RESISTOR 1W 6.8        | 1   |         |          |             |                          |      |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.

| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks     | Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks |
|---------|--------------|---------------------------|-----|-------------|----------|--------------|----------------------------|-----|---------|
|         | VEP82061D    | P.C. BOARD W/COMPONENT    |     | FOR AU-63-P | C130     | ECEA1H0010   | E. CAPACITOR 50V 1U        | 1   |         |
|         |              | WS SERVO                  |     |             | C131     | ECEA1EN220S  | E. CAPACITOR 25V 22U       | 1   |         |
|         |              |                           |     |             | C132     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U     | 1   |         |
|         |              |                           |     |             | C133-36  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 4   |         |
|         |              |                           |     |             | C137     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
|         |              |                           |     |             | C139     | ECQM1H822JF  | P. CAPACITOR 50V 8200P     | 1   |         |
|         |              |                           |     |             | C140     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P  | 1   |         |
|         |              |                           |     |             | C141     | ECEA1HN010S  | E. CAPACITOR 50V 1U        | 1   |         |
|         |              |                           |     |             | C143     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |             | C145     | ECEA1AU470   | E. CAPACITOR 10V 47U       | 1   |         |
|         |              |                           |     |             | C146     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |             | C147     | ECEA1HUR47   | E. CAPACITOR 50V 0.47U     | 1   |         |
|         |              |                           |     |             | C148     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |             | C149, 50 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |             | C151     | ECEA1HN010S  | E. CAPACITOR 50V 1U        | 1   |         |
|         |              |                           |     |             | C152, 53 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |             | C154     | ECUM1H152KEN | C. CAPACITOR CH 50V 1500P  | 1   |         |
|         |              |                           |     |             | C155     | ECEA1HN00S   | E. CAPACITOR 50V 10U       | 1   |         |
|         |              |                           |     |             | C156     | ECEA1HUR47   | E. CAPACITOR 50V 0.47U     | 1   |         |
|         |              |                           |     |             | C157, 58 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |             | C159     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |             | C160     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |             | C161     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |             | C162, 63 | ECQM1H103JF  | P. CAPACITOR 50V 0.01U     | 2   |         |
|         |              |                           |     |             | C164     | ECEA1HUR47   | E. CAPACITOR 50V 0.47U     | 1   |         |
|         |              |                           |     |             | C165-67  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |              |                           |     |             | C168     | ECEA1EU100   | E. CAPACITOR 25V 10U       | 1   |         |
|         |              |                           |     |             | C169     | ECUM1H103KEN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |             | C170     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P   | 1   |         |
|         |              |                           |     |             | C171, 72 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |             | C173     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P   | 1   |         |
|         |              |                           |     |             | C174     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |             | C175     | ECQM1H194JF  | P. CAPACITOR 50V 0.18U     | 1   |         |
|         |              |                           |     |             | C176     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |             | C177     | ECQM1H222JF  | P. CAPACITOR 50V 2200P     | 1   |         |
|         |              |                           |     |             | C301     | ECEA1AU330   | E. CAPACITOR 10V 33U       | 1   |         |
|         |              |                           |     |             | C302     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |             | C303     | ECQM1H562JF  | P. CAPACITOR 50V 5600P     | 1   |         |
|         |              |                           |     |             | C304     | ECQM1H392JF  | P. CAPACITOR 50V 3900P     | 1   |         |
|         |              |                           |     |             | C305     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |             | C306     | ECQM1H123JF  | P. CAPACITOR 50V 0.012U    | 1   |         |
|         |              |                           |     |             | C307     | ECEA1CN470S  | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |             | C308     | ECEA1JU221   | E. CAPACITOR 6.3V 220U     | 1   |         |
|         |              |                           |     |             | C309     | ECEA1HU2R2   | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |              |                           |     |             | C310     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |             | C311     | ECUM1H153KEN | C. CAPACITOR CH 50V 0.015U | 1   |         |
|         |              |                           |     |             | C312     | ECEA1HN010S  | E. CAPACITOR 50V 1U        | 1   |         |
|         |              |                           |     |             | C313, 14 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |             | C315     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |             | C316     | ECUM1E273KEN | C. CAPACITOR CH 25V 0.027U | 1   |         |
|         |              |                           |     |             | C317     | ECEA1HN2R2S  | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |              |                           |     |             | C318-20  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |              |                           |     |             | C321     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         |
|         |              |                           |     |             | C322     | ECEA1JU470   | E. CAPACITOR 6.3V 47U      | 1   |         |
|         |              |                           |     |             | C323     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |             | C324     | ECEA1JU102   | E. CAPACITOR 6.3V 1000U    | 1   |         |
|         |              |                           |     |             | C325     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |             | C327     | ECEA1HU2R2   | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |              |                           |     |             | C328, 29 | ECEA1CU100   | E. CAPACITOR 16V 10U       | 2   |         |
|         |              |                           |     |             | C330-36  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 7   |         |
|         |              |                           |     |             | C337     | ECEA1HU2R2   | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |              |                           |     |             | C338, 39 | ECEA1CU100   | E. CAPACITOR 16V 10U       | 2   |         |
|         |              |                           |     |             | C401-03  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |              |                           |     |             | C406     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |             | C408-10  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |              |                           |     |             | C454     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |             | C492     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |             | C495, 96 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |             | C501     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |             | C502     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |             | C503     | ECEA1ESS471  | E. CAPACITOR 25V 470U      | 1   |         |
|         |              |                           |     |             | C504     | ECUM1E473KEN | C. CAPACITOR CH 25V 0.047U | 1   |         |
|         |              |                           |     |             | C505     | ECUM1H561JCN | C. CAPACITOR CH 50V 560P   | 1   |         |
|         |              |                           |     |             | C506     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P    | 1   |         |
|         |              |                           |     |             | C507     | ECUM1H561JCN | C. CAPACITOR CH 50V 560P   | 1   |         |
| C1      | ECQM1H2733F  | P. CAPACITOR 50V 0.027U   | 1   |             |          |              |                            |     |         |
| C1, C2  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |             |          |              |                            |     |         |
| C2      | ECUM1H152JN  | C. CAPACITOR CH 50V 1500P | 1   |             |          |              |                            |     |         |
| C3, C4  | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 2   |             |          |              |                            |     |         |
| C5      | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |             |          |              |                            |     |         |
| C6      | ECEA1JU101   | E. CAPACITOR 6.3V 100U    | 1   |             |          |              |                            |     |         |
| C7      | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |             |          |              |                            |     |         |
| C8      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                            |     |         |
| C9      | ECQM1H154JF  | P. CAPACITOR 50V 0.15U    | 1   |             |          |              |                            |     |         |
| C10     | ECEA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 1   |             |          |              |                            |     |         |
| C11     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |             |          |              |                            |     |         |
| C13     | ECQM1H822JF  | P. CAPACITOR 50V 8200P    | 1   |             |          |              |                            |     |         |
| C14     | ECQM1H682JV  | P. CAPACITOR 50V 6800P    | 1   |             |          |              |                            |     |         |
| C15, 16 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |             |          |              |                            |     |         |
| C17     | ECQM1H394JF  | P. CAPACITOR 50V 0.39U    | 1   |             |          |              |                            |     |         |
| C18     | ECEA1HU4R7   | E. CAPACITOR 50V 4.7U     | 1   |             |          |              |                            |     |         |
| C19     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |             |          |              |                            |     |         |
| C20, 21 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |             |          |              |                            |     |         |
| C22     | ECEA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1   |             |          |              |                            |     |         |
| C23, 24 | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |             |          |              |                            |     |         |
| C25     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                            |     |         |
| C26     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |             |          |              |                            |     |         |
| C27     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                            |     |         |
| C28     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |             |          |              |                            |     |         |
| C29     | ECEA1AU330   | E. CAPACITOR 10V 33U      | 1   |             |          |              |                            |     |         |
| C30     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                            |     |         |
| C31     | ECEA1AU330   | E. CAPACITOR 10V 33U      | 1   |             |          |              |                            |     |         |
| C32     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |             |          |              |                            |     |         |
| C33     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                            |     |         |
| C34     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |             |          |              |                            |     |         |
| C39     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |             |          |              |                            |     |         |
| C40-42  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 3   |             |          |              |                            |     |         |
| C43     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |             |          |              |                            |     |         |
| C46     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             |          |              |                            |     |         |
| C47, 48 | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 2   |             |          |              |                            |     |         |
| C101    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |             |          |              |                            |     |         |
| C102    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |             |          |              |                            |     |         |
| C103    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             |          |              |                            |     |         |
| C104    | ECEA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1   |             |          |              |                            |     |         |
| C105    | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |             |          |              |                            |     |         |
| C106    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |             |          |              |                            |     |         |
| C107    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |             |          |              |                            |     |         |
| C108    | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |             |          |              |                            |     |         |
| C109    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |             |          |              |                            |     |         |
| C110    | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |             |          |              |                            |     |         |
| C111    | ECEA1HU010   | E. CAPACITOR 50V 1U       | 1   |             |          |              |                            |     |         |
| C112    | ECQM1H154JF  | P. CAPACITOR 50V 0.15U    | 1   |             |          |              |                            |     |         |
| C113    | ECEA1HU010   | E. CAPACITOR 50V 1U       | 1   |             |          |              |                            |     |         |
| C114    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             |          |              |                            |     |         |
| C115    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                            |     |         |
| C116    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             |          |              |                            |     |         |
| C117    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                            |     |         |
| C118    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             |          |              |                            |     |         |
| C119    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                            |     |         |
| C120    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             |          |              |                            |     |         |
| C121    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                            |     |         |
| C122    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             |          |              |                            |     |         |
| C123    | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |             |          |              |                            |     |         |
| C124    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |          |              |                            |     |         |
| C125    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |             |          |              |                            |     |         |
| C126    | ECQM1H562JF  | P. CAPACITOR 50V 5600P    | 1   |             |          |              |                            |     |         |
| C127    | ECQM1H393JF  | P. CAPACITOR 50V 0.039U   | 1   |             |          |              |                            |     |         |
| C128    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |             |          |              |                            |     |         |
| C129    | ECEA1OM22    | E. CAPACITOR 10V 22U      | 1   |             |          |              |                            |     |         |

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| Ref. No.  | Part No.     | Part Name & Description | Pcs | Remarks | Ref. No.  | Part No.     | Part Name & Description | Pcs   | Remarks |
|-----------|--------------|-------------------------|-----|---------|-----------|--------------|-------------------------|-------|---------|
| D716-21   | MA153        | DIODE                   | 5   |         | IC705     | UPC4082G     | IC                      | 1     |         |
|           |              |                         |     |         | IC706     | MC74HC157AF  | IC                      | 1     |         |
|           |              |                         |     |         | IC707     | MN18882      | IC                      | 1     |         |
| IC1       | LM2904M      | IC                      | 1   |         | IC708     | VS10623      | IC                      | 1     | #IC     |
| IC1       | MC74HC02AF   | IC                      | 1   |         | IC709     | MS1951HML    | IC                      | 1     |         |
| IC2       | LM2903M      | IC                      | 1   |         | IC710     | MC14538BF    | IC                      | 1     |         |
| IC2       | MC74HC02AF   | IC                      | 1   |         | IC711     | MSM521ORS    | IC                      | 1     |         |
| IC3       | LM2904M      | IC                      | 1   |         | IC712     | UPD65024F137 | IC                      | 1     | #IC     |
| IC4       | NJM4558M     | IC                      | 1   |         | IC713     | UPC4082G     | IC                      | 1     |         |
| IC5       | MC14538BF    | IC                      | 1   |         | IC714     | UPC4558G     | IC                      | 1     |         |
| IC6       | UPD65031F405 | IC                      | 1   |         | IC715     | MC14051BF    | IC                      | 1     |         |
| IC7       | MM53015VZM   | IC                      | 1   |         | IC716     | UPC4082G     | IC                      | 1     |         |
| IC8       | MC14049UBF   | IC                      | 1   |         | IC717     | UPC4741G     | IC                      | 1     |         |
| IC9       | MC14013BF    | IC                      | 1   |         | IC718     | UPC4558G     | IC                      | 1     |         |
| IC10      | MM74HC221AM  | IC                      | 1   |         | IC719     | MC14051BF    | IC                      | 1     |         |
| IC11      | AN78L05      | IC                      | 1   |         | IC720     | UPD4053BG    | IC                      | 1     |         |
| IC12      | MC14021BF    | IC                      | 1   |         | IC721     | AN79L05      | IC                      | 1     |         |
| IC13      | MC14094BF    | IC                      | 1   |         | IC722     | AN78L05      | IC                      | 1     |         |
| IC14      | UPD4053BG    | IC                      | 1   |         | IC723     | AN78L09      | IC                      | 1     |         |
| IC15      | MC14049UBF   | IC                      | 1   |         | IC724     | AN79L09      | IC                      | 1     |         |
| IC16      | MC14050BF    | IC                      | 1   |         | IC725, 26 | LM2902M      | IC                      | 2     |         |
| IC18      | MM51020VZ2   | IC                      | 1   |         | IC727     | LM2903M      | IC                      | 1     |         |
| IC101     | LM2904M      | IC                      | 1   |         | IC800     | LM2904M      | IC                      | 1     |         |
| IC102     | LM2903M      | IC                      | 1   |         | ICS708    | WJS2336A028  | CONNECTOR (FEMALE)      | 1     |         |
| IC103     | LM2904M      | IC                      | 1   |         |           |              |                         |       |         |
| IC104     | MC14538BF    | IC                      | 1   |         |           |              |                         |       |         |
| IC105     | AN79L09      | IC                      | 1   |         | L1        | VLP0017      | COIL                    | 1     |         |
| IC106     | AN78N09      | IC                      | 1   |         | L2-14     | VLQ8L05S221J | COIL                    | 220UH | 3       |
| IC107     | DN74LS293S   | IC                      | 1   |         | L101, 02  | VLQ8L05S221J | COIL                    | 220UH | 2       |
| IC108     | MC74HC00AF   | IC                      | 1   |         | L501      | VLQ0214      | COIL                    | 50UH  | 1       |
| IC109     | MM6064R      | IC                      | 1   |         | L504-07   | VLQ0129      | COIL                    | 300UH | 4       |
| IC110     | MM6168VIA    | IC                      | 1   |         | L701      | VLQ8L05S101J | COIL                    | 100UH | 1       |
| IC111     | MC74HC04F    | IC                      | 1   |         | L702      | VLQ0128      | COIL                    | 47UH  | 1       |
| IC112     | MC14049UBF   | IC                      | 1   |         |           |              |                         |       |         |
| IC113, 14 | LM2904M      | IC                      | 2   |         |           |              |                         |       |         |
| IC115     | LM2903M      | IC                      | 1   |         |           |              |                         |       |         |
| IC116, 17 | LM2904M      | IC                      | 2   |         |           |              |                         |       |         |
| IC118-20  | MC14066BF    | IC                      | 3   |         | Q1        | UN2213       | TRANSISTOR-RESISTOR     | 1     |         |
| IC121     | UPD4052BG    | IC                      | 1   |         | Q1, Q2    | UN2213       | TRANSISTOR-RESISTOR     | 2     |         |
| IC123     | UPD4053BG    | IC                      | 1   |         | Q2        | UN2213       | TRANSISTOR-RESISTOR     | 1     |         |
| IC124     | MM53030VVA   | IC                      | 1   |         | Q8, Q9    | UN2213       | TRANSISTOR-RESISTOR     | 2     |         |
| IC125     | MM53007VAC   | IC                      | 1   |         | Q10, 11   | UN2213       | TRANSISTOR-RESISTOR     | 2     |         |
| IC126     | UPC4558G     | IC                      | 1   |         | Q17       | UN2213       | TRANSISTOR-RESISTOR     | 1     |         |
| IC128     | NJM4558M     | IC                      | 1   |         | Q101      | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC129     | MC14538BF    | IC                      | 1   |         | Q102      | UN2213       | TRANSISTOR-RESISTOR     | 1     |         |
| IC130     | MC14013BF    | IC                      | 1   |         | Q103      | 2SJ43        | TRANSISTOR              | 1     |         |
| IC131     | LM2904M      | IC                      | 1   |         | Q104      | UN2213       | TRANSISTOR-RESISTOR     | 1     |         |
| IC132     | UPC4558G     | IC                      | 1   |         | Q105      | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC133     | MM4030BS     | IC                      | 1   |         | Q106-08   | UN2213       | TRANSISTOR-RESISTOR     | 3     |         |
| IC134     | MC14538BF    | IC                      | 1   |         | Q109      | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC135     | UPD4053BG    | IC                      | 1   |         | Q110-19   | UN2213       | TRANSISTOR-RESISTOR     | 10    |         |
| IC137     | MC14538BF    | IC                      | 1   |         | Q120      | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC301     | AN78L05      | IC                      | 1   |         | Q123, 24  | UN2213       | TRANSISTOR-RESISTOR     | 2     |         |
| IC302     | LM2904M      | IC                      | 1   |         | Q128      | UN2213       | TRANSISTOR-RESISTOR     | 1     |         |
| IC303     | LM2902M      | IC                      | 1   |         | Q129      | UN2214       | TRANSISTOR-RESISTOR     | 1     |         |
| IC304     | UPD4053BG    | IC                      | 1   |         | Q130      | 2SK374       | TRANSISTOR              | 1     |         |
| IC305     | MC14066BF    | IC                      | 1   |         | Q131-33   | UN2213       | TRANSISTOR-RESISTOR     | 3     |         |
| IC306     | LM2904M      | IC                      | 1   |         | Q134, 35  | 2SB709       | TRANSISTOR CHIP         | 2     | (Q,R)   |
| IC307     | LM2902M      | IC                      | 1   |         | Q137-39   | UN2213       | TRANSISTOR-RESISTOR     | 3     |         |
| IC308, 09 | LM2904M      | IC                      | 2   |         | Q140      | MA151A       | DIODE                   | 1     |         |
| IC310-13  | MC14066BF    | IC                      | 4   |         | Q301, 02  | UN2213       | TRANSISTOR-RESISTOR     | 2     |         |
| IC314     | MC14028BF    | IC                      | 1   |         | Q303      | UN2113       | TRANSISTOR-RESISTOR     | 1     |         |
| IC315     | MC14081BF    | IC                      | 1   |         | Q304      | UN2213       | TRANSISTOR-RESISTOR     | 1     |         |
| IC316     | RJN2901M     | IC                      | 1   |         | Q305      | UN2113       | TRANSISTOR-RESISTOR     | 1     |         |
| IC317, 18 | MC14538BF    | IC                      | 2   |         | Q306-09   | UN2213       | TRANSISTOR-RESISTOR     | 4     |         |
| IC319     | MC14049UBF   | IC                      | 1   |         | Q312-14   | UN2213       | TRANSISTOR-RESISTOR     | 3     |         |
| IC501     | BA6149LS     | IC                      | 1   |         | Q316      | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC502     | PW4213       | IC                      | 1   |         | Q317      | UN2213       | TRANSISTOR-RESISTOR     | 1     |         |
| IC503-06  | AN3921K      | IC                      | 4   |         | Q319      | 2SD601       | TRANSISTOR CHIP         | 1     | (Q,R)   |
| IC700     | AN608P       | IC                      | 1   |         | Q320      | UN2213       | TRANSISTOR-RESISTOR     | 1     |         |
| IC701     | UPC4741G     | IC                      | 1   |         | Q326      | UN2213       | TRANSISTOR-RESISTOR     | 1     |         |
| IC702     | TL431CLP     | IC                      | 1   | #IC     | Q330-33   | UN2213       | TRANSISTOR-RESISTOR     | 4     |         |
| IC703     | UPD4053BG    | IC                      | 1   |         | Q336, 37  | UN2213       | TRANSISTOR-RESISTOR     | 2     |         |
| IC704     | UPC4558G     | IC                      | 1   |         | Q339, 40  | UN2213       | TRANSISTOR-RESISTOR     | 2     |         |
|           |              |                         |     |         | Q343      | UN2213       | TRANSISTOR-RESISTOR     | 1     |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| Q501-04 | 2SB709      | TRANSISTOR CHIP          | 4   | (Q,R)   |
| Q505    | UN2113      | TRANSISTOR-RESISTOR      | 1   |         |
| Q506    | UN2213      | TRANSISTOR-RESISTOR      | 1   |         |
| Q507    | UN2113      | TRANSISTOR-RESISTOR      | 1   |         |
| Q508,09 | UN2213      | TRANSISTOR-RESISTOR      | 2   |         |
| Q700    | UN2113      | TRANSISTOR-RESISTOR      | 1   |         |
| Q701-11 | UN2213      | TRANSISTOR-RESISTOR      | 11  |         |
|         |             | RESISTORS                |     |         |
| R1      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R1      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R2      | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R2      | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R3      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R3      | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R4      | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R4      | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R5      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R5      | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R6      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R6      | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R7      | ERJ6GEYJ155 | M.RESISTOR CH1/10W 1.5M  | 1   |         |
| R7      | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R8      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R9      | ERJ6GEYJ125 | M.RESISTOR CH1/10W 1.2M  | 1   |         |
| R10     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R10     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R11,12  | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R13     | ERJ6GEYJ123 | M.RESISTOR CH1/10W 12K   | 1   |         |
| R14     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R15     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R16     | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         |
| R17     | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R18,19  | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 2   |         |
| R20     | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R21     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R22     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R23     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R24     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R25     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R27     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R28-31  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 4   |         |
| R34,35  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R36     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R37-44  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 8   |         |
| R45     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R50     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R51     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R52     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R53     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R54     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R55     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R56     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R57     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R58     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R59     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R60     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R61     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R62     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R69,70  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R101    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R102    | ERJ6GEYJ184 | M.RESISTOR CH1/10W 180K  | 1   |         |
| R103    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R104    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R105-07 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R108    | ERJ6GEYJ184 | M.RESISTOR CH1/10W 180K  | 1   |         |
| R209    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R110,11 | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 2   |         |
| R112    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R113    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R114    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R115    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R116    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R117    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R118    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R119    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R120    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R121,22 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R123    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R124    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R125    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R126-32 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 7   |         |
| R133,34 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R135,36 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R137    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R138    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R139    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R140    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R141    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R142    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R143    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R144    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R145    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R146    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R147,48 | ERJ6GEYJ273 | M.RESISTOR CH1/10W 27K   | 2   |         |
| R150    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R151    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R152    | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R153    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R154-56 | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 3   |         |
| R157    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R158    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R159    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R160    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R161    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R162    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R163    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R164    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R165    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R166    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R167    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R168    | ERJ6GEYJ273 | M.RESISTOR CH1/10W 27K   | 1   |         |
| R169    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R170,71 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R172    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R181,82 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R183    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R184    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R185    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R186    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R187,88 | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 2   |         |
| R189    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R190    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R191,92 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R193,94 | ERJ6GEYJ273 | M.RESISTOR CH1/10W 27K   | 2   |         |
| R195    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R196    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R197    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R204    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R205    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R206    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R207-09 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R210    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R211    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R212    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R213-15 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 3   |         |
| R216    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R222-27 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 6   |         |
| R228    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R229    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R230    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R231    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R232    | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R233    | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R234    | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R235    | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R236    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R237    | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |

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| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R238     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R346     | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R239     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R349, 50 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R240     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R351     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R241     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R352-55  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         |
| R242     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | R356     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R243     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R357     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R244, 45 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R358     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R246     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R359-63  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R247     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R365     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R248     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R366     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R249     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | R367, 68 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R250     | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         | R369     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R251     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R370-74  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         |
| R252     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R376     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R253     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R378, 79 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R254-58  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         | R380     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R259     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R381     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R260     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R382     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R261     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R383     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R262     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         | R386     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R263     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R388     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R264     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R389     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R265     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R390     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R266-69  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 4   |         | R391     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R270     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R392, ■  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R271     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R394, 95 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R273     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R396, 97 | VRE0034E472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R274     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R398     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R275     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R399     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R276, 77 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R405     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R278     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R406     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R279-82  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 4   |         | R407     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R283     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R408, 09 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R284     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R410     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R285     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R421     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R286     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R423     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R302     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R424     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R302, 03 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R425     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R304     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R427     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R305     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R428     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R306     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R431     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R307     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R432, 33 | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 2   |         |
| R308     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R434     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R309     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R435     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R310     | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         | R437     | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R311     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | R440     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R312     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R441, 42 | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 2   |         |
| R313     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R443     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R314     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         | R463     | ERDS2TJ331  | C.RESISTOR 1/4W 330      | 1   |         |
| R315, 16 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R469     | ERDS2TJ564  | C.RESISTOR 1/4W 560K     | 1   |         |
| R317     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R470     | ERDS2TJ394  | C.RESISTOR 1/4W 390K     | 1   |         |
| R318     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R501     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R319     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R502     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R320     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R503     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R321     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R504-07  | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 4   |         |
| R322     | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         | R508     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R325, 26 | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | R509-12  | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390  | 4   |         |
| R327     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R513     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R328     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R514     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R329     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R515     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R330     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | R516     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R331     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R517     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R332, 33 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | R518     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R334     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R519     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R335     | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         | R520     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R336     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R521, 22 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2   |         |
| R337, 38 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R523     | ERX12SJR47  | M.RESISTOR 1/2W 0.47     | 1   |         |
| R339, 40 | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | R524     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R341     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R525     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R342     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R526     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R343     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R527     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R344     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | R528     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R345     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R529     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R346     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R530     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R347     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R531     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs  | Remarks |
|---------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|------|---------|
| R532    | ERJ12SR68   | M.RESISTOR 1/2W 0.68     | 1   |         | R797,98  | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2    |         |
| R533    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R799     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1    |         |
| R534    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R800     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1    |         |
| R535    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R801,02  | VRED034E103 | M.RESISTOR CH 1/10W 10K  | 2    |         |
| R536    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R803     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1    |         |
| R537    | ERJ12SR47   | M.RESISTOR 1/2W 0.47     | 1   |         | R804,05  | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2    |         |
| R538-40 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 3   |         | R806     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1    |         |
| R541    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R807     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1    |         |
| R542    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R808     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1    |         |
| R543    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R809     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1    |         |
| R544    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R810,11  | VRED034E103 | M.RESISTOR CH 1/10W 10K  | 2    |         |
| R545    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R812     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1    |         |
| R546    | ERJ12SR47   | M.RESISTOR 1/2W 0.47     | 1   |         | R813,14  | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2    |         |
| R547-49 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 3   |         | R815     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1    |         |
| R550    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R816     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1    |         |
| R551    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R817     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1    |         |
| R552    | ERJ12SR68   | M.RESISTOR 1W 6.8        | 1   |         |          |             |                          |      |         |
| R554    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |          |             |                          |      |         |
| R700    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | RA700,01 | VCR0202     | RESISTOR ARRAY           | 2    |         |
| R701    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | RA702    | EXBLD6103G  | COMBI. R-R               | 10K  | 1       |
| R702    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |      |         |
| R703    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          |             |                          |      |         |
| R704    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |      |         |
| R705    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |          |             |                          |      |         |
| R706    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | SM1,42   | VSR0032     | VOLTAGE SELECT SWITCH    | 2    |         |
| R707    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | SW700    | VSS0207     | SWITCH                   | 1    |         |
| R708    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |          |             |                          |      |         |
| R709    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                          |      |         |
| R710    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |          |             |                          |      |         |
| R711    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | TP3-P7   | VJR0582     | PACK PIN                 | 1    |         |
| R712    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | TP13     | VJR0582     | PACK PIN                 | 1    |         |
| R713,14 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | TP15-17  | VJR0582     | PACK PIN                 | 3    |         |
| R715    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | TP19,20  | VJR0582     | PACK PIN                 | 2    |         |
| R716,17 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | TP102-05 | VJR0582     | PACK PIN                 | 4    |         |
| R718    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP108-18 | VJR0582     | PACK PIN                 | 11   |         |
| R719-26 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 8   |         | TP201,02 | VJR0582     | PACK PIN                 | 2    |         |
| R727-40 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 14  |         | TP302-04 | VJR0582     | PACK PIN                 | 3    |         |
| R741    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP306    | VJR0582     | PACK PIN                 | 1    |         |
| R742,43 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         | TP309-12 | VJR0582     | PACK PIN                 | 4    |         |
| R744    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP700-14 | VJR0582     | PACK PIN                 | 15   |         |
| R746-50 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         | TPG1-G3  | VJR0582     | PACK PIN                 | 3    |         |
| R751    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |          |             |                          |      |         |
| R752-54 | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 3   |         |          |             |                          |      |         |
| R755    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                          |      |         |
| R756-58 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 3   |         | VC101    | ECM1ZW30K53 | V. CAPACITOR             | 30P  | 1       |
| R759    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |          |             |                          |      |         |
| R760    | ERJ6GEYJ622 | M.RESISTOR CH 1/10W 6.2K | 1   |         |          |             |                          |      |         |
| R761    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |          |             |                          |      |         |
| R762    | ERJ6GEYJ913 | M.RESISTOR CH 1/10W 91K  | 1   |         | VR1      | VRV0109B503 | V.RESISTOR               | 50K  | 1       |
| R763    | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | VR3      | VRV0109B503 | V.RESISTOR               | 50K  | 1       |
| R764    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | VR101    | VRV0109B203 | V.RESISTOR               | 20K  | 1       |
| R765    | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | VR102    | VRV0109B103 | V.RESISTOR               | 10K  | 1       |
| R766,67 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         | VR103    | VRV0109B203 | V.RESISTOR               | 20K  | 1       |
| R768    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         | VR104    | VRV0109B502 | V.RESISTOR               | 5K   | 1       |
| R769    | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1   |         | VR105    | VRV0109B104 | V.RESISTOR               | 100K | 1       |
| R770    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | VR301    | VRV0109B502 | V.RESISTOR               | 5K   | 1       |
| R771    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | VR302,03 | VRV0109B202 | V.RESISTOR               | 2K   | 2       |
| R772-74 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 3   |         | VR304-07 | VRV0109B503 | V.RESISTOR               | 50K  | 4       |
| R775    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | VR308    | VRV0109B202 | V.RESISTOR               | 2K   | 1       |
| R776    | ERJ6GEYJ622 | M.RESISTOR CH 1/10W 6.2K | 1   |         | VR700    | VRV0109B202 | V.RESISTOR               | 2K   | 1       |
| R777,78 | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 2   |         | VR701    | VRV0109B103 | V.RESISTOR               | 10K  | 1       |
| R779    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | VR702,03 | VRV0110B503 | V.RESISTOR               | 50K  | 1       |
| R780,81 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         | VR704-07 | VRV0064B203 | V.RESISTOR               | 20K  | 4       |
| R782    | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         | VR708,09 | VRV0109B102 | V.RESISTOR               | 1K   | 2       |
| R783    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |          |             |                          |      |         |
| R784    | ERJ6GEYJ913 | M.RESISTOR CH 1/10W 91K  | 1   |         |          |             |                          |      |         |
| R785    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |          |             |                          |      |         |
| R786,87 | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 2   |         | X101     | VSK0081     | CRYSTAL OSCILLATOR       |      | 1       |
| R788,89 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         | X501     | VSK0136     | CRYSTAL OSCILLATOR       |      | 1       |
| R790    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         | X700     | VSK0149     | CRYSTAL OSCILLATOR       |      | 1       |
| R791    | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1   |         |          |             |                          |      |         |
| R792    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |          |             |                          |      |         |
| R793    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |          |             |                          |      |         |
| R794,95 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |          |             | MISCELLANEOUS            |      |         |
| R796    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |          | WRO421      | PIN                      |      | 4       |

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| Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks | Ref.No.   | Part No.     | Part Name & Description  | Pcs | Remarks |
|----------|--------------|----------------------------|-----|---------|-----------|--------------|--------------------------|-----|---------|
| C508     | ECEA1H0010   | E. CAPACITOR 50V 1U        | 1   |         | D334-36   | MA151K       | DIODE                    | 3   |         |
| C509-13  | ECEA1ESS101  | E. CAPACITOR 25V 100U      | 5   |         | D337      | ERJ6GEYJ824  | M.RESISTOR CH 1/10W 820K | 1   |         |
| C514     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D338      | MA151K       | DIODE                    | 1   |         |
| C515     | ECEA1EU4R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D340      | MA151WA      | DIODE                    | 1   |         |
| C516-18  | ECEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 3   |         | D341      | MA151K       | DIODE                    | 1   |         |
| C519     | ECEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         | D345, 46  | MA151WA      | DIODE                    | 2   |         |
| C520-22  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D349      | MA151WK      | DIODE                    | 1   |         |
| C523     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D351      | MA151K       | DIODE                    | 1   |         |
| C524     | ECEA1EU4R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D501      | MA151K       | DIODE                    | 1   |         |
| C525, 26 | ECEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 2   |         | D502      | MA151WK      | DIODE                    | 1   |         |
| C527     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D503      | MA153        | DIODE                    | 1   |         |
| C528     | ECEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         | D504      | MA151WK      | DIODE                    | 1   |         |
| C529-31  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D505, 06  | MA151K       | DIODE                    | 2   |         |
| C532     | ECEA1EU4R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D507      | MA151WK      | DIODE                    | 1   |         |
| C533, 34 | ECEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 2   |         | D508, 09  | MA151K       | DIODE                    | 2   |         |
| C535     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D510      | MA151WK      | DIODE                    | 1   |         |
| C536     | ECEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         | D511      | MA151K       | DIODE                    | 1   |         |
| C537-39  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D514-17   | MA701A       | DIODE                    | 4   |         |
| C540     | ECEA1EU4R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D572      | MA151K       | DIODE                    | 1   |         |
| C541-43  | ECEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 3   |         |           |              |                          |     |         |
| C544     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |           |              |                          |     |         |
| C545     | ECEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         |           |              |                          |     |         |
| C546-48  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         |           |              |                          |     |         |
| C549     | ECEA1AU470   | E. CAPACITOR 10V 47U       | 1   |         | IC1       | LM2904N      | IC                       | 1   |         |
| C550     | ECUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1   |         | IC2       | LM2903M      | IC                       | 1   |         |
| C551     | ECEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 1   |         | IC3       | LM2904M      | IC                       | 1   |         |
| C552     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | IC4       | LM4558N      | IC                       | 1   |         |
| C553     | ECEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 1   |         | IC5       | MC14538BF    | IC                       | 1   |         |
| C558-63  | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 6   |         | IC6       | UPD65031F405 | IC                       | 1   |         |
| C600     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P    | 1   |         | IC7       | MM53015V2M   | IC                       | 1   |         |
| C601     | ECUM1H500JCN | C. CAPACITOR CH 50V 50P    | 1   |         | IC8       | MC14049UBF   | IC                       | 1   |         |
| C602     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P    | 1   |         | IC9       | MC14013BF    | IC                       | 1   |         |
| C603     | ECUM1H500JCN | C. CAPACITOR CH 50V 50P    | 1   |         | IC10      | MM74HC221AM  | IC                       | 1   |         |
| C900-11  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 12  |         | IC11      | AN78L05      | IC                       | 1   |         |
|          |              |                            |     |         | IC12      | MC14021BF    | IC                       | 1   |         |
|          |              |                            |     |         | IC13      | MC14094BF    | IC                       | 1   |         |
|          |              |                            |     |         | IC14      | MC14053BP    | IC                       | 1   | (R)     |
|          |              |                            |     |         | IC15      | MC14049UBF   | IC                       | 1   |         |
| D1       | MA151K       | DIODE                      | 1   |         | IC16      | MC14050BF    | IC                       | 1   |         |
| D4       | MA151K       | DIODE                      | 1   |         | IC17      | SN741LS01NS  | IC                       | 1   |         |
| D101     | MA151K       | DIODE                      | 1   |         | IC18      | MM51020VZ2   | IC                       | 1   |         |
| D102     | MA153        | DIODE                      | 1   |         | IC101     | LM2904M      | IC                       | 1   |         |
| D103     | MA151WK      | DIODE                      | 1   |         | IC102     | LM2903M      | IC                       | 1   |         |
| D104     | MA151K       | DIODE                      | 1   |         | IC103     | LM2904M      | IC                       | 1   |         |
| D105     | MA151WK      | DIODE                      | 1   |         | IC104     | MC14538BF    | IC                       | 1   |         |
| D106, 07 | MA151WA      | DIODE                      | 2   |         | IC105     | AN79LD9      | IC                       | 1   |         |
| D108     | MA151K       | DIODE                      | 1   |         | IC106     | AN78ND9      | IC                       | 1   |         |
| D109     | MA151WK      | DIODE                      | 1   |         | IC107     | DM74LS293S   | IC                       | 1   |         |
| D110, 11 | MA153        | DIODE                      | 2   |         | IC108     | MC74HC00AF   | IC                       | 1   |         |
| D112     | MA151WK      | DIODE                      | 1   |         | IC109     | MM6064R      | IC                       | 1   |         |
| D113, 14 | MA151K       | DIODE                      | 2   |         | IC110     | MM6168VIA    | IC                       | 1   |         |
| D115     | MA153        | DIODE                      | 1   |         | IC111     | MC74HCX04F   | IC                       | 1   |         |
| D116     | MA151K       | DIODE                      | 1   |         | IC112     | MC14049UBF   | IC                       | 1   |         |
| D119     | MA151WK      | DIODE                      | 1   |         | IC113, 14 | LM2904M      | IC                       | 2   |         |
| D120-22  | MA151WA      | DIODE                      | 3   |         | IC115     | LM2903M      | IC                       | 1   |         |
| D123     | MA151K       | DIODE                      | 1   |         | IC116, 17 | LM2904M      | IC                       | 2   |         |
| D125     | MA151K       | DIODE                      | 1   |         | IC118-20  | MC14066BF    | IC                       | 3   |         |
| D126, 27 | MA153        | DIODE                      | 2   |         | IC121     | MC14052BF    | IC                       | 1   |         |
| D128     | MA151WA      | DIODE                      | 1   |         | IC122, 23 | MC14053BF    | IC                       | 2   | (R)     |
| D129     | MA151K       | DIODE                      | 1   |         | IC124     | MM53030VVA   | IC                       | 1   |         |
| D301, 02 | MA151K       | DIODE                      | 1   |         | IC125     | MM53007VVC   | IC                       | 1   |         |
| D303     | MA151WK      | DIODE                      | 1   |         | IC126     | UPC4558G     | IC                       | 1   |         |
| D304     | MA151WA      | DIODE                      | 1   |         | IC128     | MM4558N      | IC                       | 1   |         |
| D305     | MA151K       | DIODE                      | 1   |         | IC129     | MC14538BF    | IC                       | 1   |         |
| D307     | MA151WA      | DIODE                      | 1   |         | IC130     | MC14013BF    | IC                       | 1   |         |
| D309     | MA151WK      | DIODE                      | 1   |         | IC131     | LM2904M      | IC                       | 1   |         |
| D310     | MA151K       | DIODE                      | 1   |         | IC132     | UPC4558G     | IC                       | 1   |         |
| D313     | MA151WA      | DIODE                      | 1   |         | IC133     | MM4030BS     | IC                       | 1   |         |
| D314-17  | MA151WK      | DIODE                      | 4   |         | IC134     | MC14538BF    | IC                       | 1   |         |
| D318     | MA151K       | DIODE                      | 1   |         | IC135     | MC14053BP    | IC                       | 1   | (R)     |
| D319, 20 | MA151WK      | DIODE                      | 1   |         | IC136     | MC74HC02AF   | IC                       | 1   |         |
| D321, 22 | MA151K       | DIODE                      | 2   |         | IC137     | MC14538BF    | IC                       | 1   |         |
| D323, 24 | MA151WK      | DIODE                      | 2   |         | IC301     | AN78L05      | IC                       | 1   |         |
| D325     | MA151K       | DIODE                      | 1   |         | IC302     | LM2904M      | IC                       | 1   |         |
| D330     | MA151K       | DIODE                      | 1   |         | IC303     | LM2902M      | IC                       | 1   |         |
| D333     | MA151WK      | DIODE                      | 1   |         | IC304     | MC14053BF    | IC                       | 1   | (R)     |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| R145    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R249    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R146    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R250    | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         |
| R147,48 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         | R251    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R149    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R252    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R150    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R253    | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         |
| R151    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R254-58 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         |
| R152    | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         | R259    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R153    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R260    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R154-56 | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 3   |         | R261    | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R157,58 | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 2   |         | R262    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R159    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R263    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R160    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R264    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R161    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R265    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R162    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R266-69 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 4   |         |
| R163    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R270    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R164    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R271    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R165    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R273    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R166    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R274    | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R167    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R275    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R168    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R276,77 | VR80034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R169    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R278    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R170,71 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         | R279-81 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 3   |         |
| R172    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R282    | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         |
| R181,82 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         | R283    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R183    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R284    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R184    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R285    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R185    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R286,87 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R186    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R288    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R187,88 | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 2   |         | R289    | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R189    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | R301    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R190    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R302,03 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R191,92 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R304    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R193,94 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         | R305    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R195    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R306    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R196    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R307    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R197    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R308    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R198    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | R309    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R199    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R310    | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R200    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R311    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R201    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R312    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R202    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R313    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R203    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | R314    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R204    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R315,16 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R205    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R317    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R206    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R318    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R207-09 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         | R319    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R210    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R320    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R211    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R321    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R212    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R322    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R213-15 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 3   |         | R325,26 | VR80034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R216    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R327    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R218    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R328    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R219    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R329    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R220    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R330    | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R222-27 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 6   |         | R331    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R228    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R332,33 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R229    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R334    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R230    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R335    | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R231    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R336    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R232    | VR80034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R337,38 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R233    | VR80034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R339,40 | VR80034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R234    | VR80034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R341    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R235    | VR80034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R342    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R236    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R343    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R237    | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         | R344    | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R238    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R345    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R239    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R346    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R240    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R347    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R241    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R348    | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R242    | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | R349,50 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R243    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R351    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R244,45 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R352-55 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         |
| R246    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R356    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R247    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R357    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R248    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R358    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |

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| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks       | Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|---------|----------|-------------------------|-----|---------------|---------|--------------|---------------------------|-----|---------|
|         | VP82061F | P.C. BOARD W/COMPONENT  |     | FOR AU-53-E,B | C131    | ECFA1EN2205  | E.CAPACITOR 25V 22U       | 1   |         |
|         |          | MS SERVO                |     |               | C132    | ECQMIH103JF  | P.CAPACITOR 50V 0.01U     | 1   |         |
|         |          |                         |     |               | C133-36 | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 4   |         |
|         |          |                         |     |               | C137    | ECFA1CU101   | E.CAPACITOR 16V 100U      | 1   |         |
|         |          |                         |     |               | C139    | ECQMIH622JF  | P.CAPACITOR 50V 8200P     | 1   |         |
|         |          |                         |     |               | C140    | ECQMIH102JCN | C.CAPACITOR CH 50V 1000P  | 1   |         |
|         |          |                         |     |               | C141    | ECFA1HN010S  | E.CAPACITOR 50V 1U        | 1   |         |
|         |          |                         |     |               | C143    | ECFA1CU470   | E.CAPACITOR 16V 47U       | 1   |         |
|         |          |                         |     |               | C145    | ECFA1AU470   | E.CAPACITOR 10V 47U       | 1   |         |
|         |          |                         |     |               | C146    | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 1   |         |
|         |          |                         |     |               | C147    | ECFA1HUR47   | E.CAPACITOR 50V 0.47U     | 1   |         |
|         |          |                         |     |               | C148    | ECFA1CU470   | E.CAPACITOR 16V 47U       | 1   |         |
|         |          |                         |     |               | C149,50 | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 1   |         |
|         |          |                         |     |               | C151    | ECFA1HN010S  | E.CAPACITOR 50V 1U        | 1   |         |
|         |          |                         |     |               | C152,53 | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 2   |         |
|         |          |                         |     |               | C154    | ECQMIH152KBN | C.CAPACITOR CH 50V 1500P  | 1   |         |
|         |          |                         |     |               | C155    | ECFA1HN100S  | E.CAPACITOR 50V 10U       | 1   |         |
|         |          |                         |     |               | C156    | ECFA1HUR47   | E.CAPACITOR 50V 0.47U     | 1   |         |
|         |          |                         |     |               | C157,58 | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 2   |         |
|         |          |                         |     |               | C159    | ECQMIH104JF  | P.CAPACITOR 50V 0.1U      | 1   |         |
|         |          |                         |     |               | C160    | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 1   |         |
|         |          |                         |     |               | C161    | ECQMIH104JF  | P.CAPACITOR 50V 0.1U      | 1   |         |
|         |          |                         |     |               | C162,63 | ECQMIH103JF  | P.CAPACITOR 50V 0.01U     | 2   |         |
|         |          |                         |     |               | C164    | ECFA1HUR47   | E.CAPACITOR 50V 0.47U     | 1   |         |
|         |          |                         |     |               | C165-67 | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 3   |         |
|         |          |                         |     |               | C168    | ECFA1EU100   | E.CAPACITOR 25V 10U       | 1   |         |
|         |          |                         |     |               | C169    | ECQMIH103JF  | P.CAPACITOR 50V 0.01U     | 1   |         |
|         |          |                         |     |               | C170    | ECQMIH471JCN | C.CAPACITOR CH 50V 470P   | 1   |         |
|         |          |                         |     |               | C171,72 | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 2   |         |
|         |          |                         |     |               | C173    | ECQMIH101JCN | C.CAPACITOR CH 50V 100P   | 1   |         |
|         |          |                         |     |               | C174    | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 1   |         |
|         |          |                         |     |               | C175    | ECFA1HUR2    | E.CAPACITOR 50V 2.2U      | 1   |         |
|         |          |                         |     |               | C176    | ECFA1CU470   | E.CAPACITOR 16V 47U       | 1   |         |
|         |          |                         |     |               | C177    | ECQMIH222JF  | P.CAPACITOR 50V 2200P     | 1   |         |
|         |          |                         |     |               | C179    | ECQMIH221JCN | C.CAPACITOR CH 50V 220P   | 1   |         |
|         |          |                         |     |               | C301    | ECFA1AU330   | E.CAPACITOR 10V 33U       | 1   |         |
|         |          |                         |     |               | C302    | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 1   |         |
|         |          |                         |     |               | C303    | ECQMIH562JF  | P.CAPACITOR 50V 5600P     | 1   |         |
|         |          |                         |     |               | C304    | ECQMIH392JF  | P.CAPACITOR 50V 3900P     | 1   |         |
|         |          |                         |     |               | C305    | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 1   |         |
|         |          |                         |     |               | C306    | ECQMIH123JF  | P.CAPACITOR 50V 0.012U    | 1   |         |
|         |          |                         |     |               | C307    | ECFA1CM470S  | E.CAPACITOR 16V 47U       | 1   |         |
|         |          |                         |     |               | C308    | ECFA1JU221   | E.CAPACITOR 6.3V 220U     | 1   |         |
|         |          |                         |     |               | C309    | ECFA1HUR2    | E.CAPACITOR 50V 2.2U      | 1   |         |
|         |          |                         |     |               | C310    | ECQMIH104JF  | P.CAPACITOR 50V 0.1U      | 1   |         |
|         |          |                         |     |               | C311    | ECQMIH153KBN | C.CAPACITOR CH 50V 0.015U | 1   |         |
|         |          |                         |     |               | C312    | ECFA1HN010S  | E.CAPACITOR 50V 1U        | 1   |         |
|         |          |                         |     |               | C313,14 | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 2   |         |
|         |          |                         |     |               | C315    | ECQMIH104JF  | P.CAPACITOR 50V 0.1U      | 1   |         |
|         |          |                         |     |               | C316    | ECQMIH273KBN | C.CAPACITOR CH 25V 0.027U | 1   |         |
|         |          |                         |     |               | C317    | ECFA1HN2R2S  | E.CAPACITOR 50V 2.2U      | 1   |         |
|         |          |                         |     |               | C318-20 | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 3   |         |
|         |          |                         |     |               | C321    | ECFA1CU100   | E.CAPACITOR 16V 10U       | 1   |         |
|         |          |                         |     |               | C322    | ECFA1JU470   | E.CAPACITOR 6.3V 47U      | 1   |         |
|         |          |                         |     |               | C323    | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 1   |         |
|         |          |                         |     |               | C324    | ECFA1JU102   | E.CAPACITOR 6.3V 1000U    | 1   |         |
|         |          |                         |     |               | C327    | ECFA1HUR2    | E.CAPACITOR 50V 2.2U      | 1   |         |
|         |          |                         |     |               | C330-36 | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 7   |         |
|         |          |                         |     |               | C338,39 | ECFA1CU100   | E.CAPACITOR 16V 10U       | 2   |         |
|         |          |                         |     |               | C342    | ECQMIH104JF  | P.CAPACITOR 50V 0.1U      | 1   |         |
|         |          |                         |     |               | C401-03 | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 3   |         |
|         |          |                         |     |               | C406-10 | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 1   |         |
|         |          |                         |     |               | C454    | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 1   |         |
|         |          |                         |     |               | C493    | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 1   |         |
|         |          |                         |     |               | C495,96 | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 2   |         |
|         |          |                         |     |               | C501    | ECQMIH1032FN | C.CAPACITOR CH 50V 0.01U  | 1   |         |
|         |          |                         |     |               | C502    | ECFA1CU470   | E.CAPACITOR 16V 47U       | 1   |         |
|         |          |                         |     |               | C503    | ECFA1ESS471  | E.CAPACITOR 25V 470U      | 1   |         |
|         |          |                         |     |               | C504    | ECQMIH473KBN | C.CAPACITOR CH 25V 0.047U | 1   |         |
|         |          |                         |     |               | C505    | ECQMIH561JCN | C.CAPACITOR CH 50V 560P   | 1   |         |
|         |          |                         |     |               | C506    | ECQMIH820JCN | C.CAPACITOR CH 50V 82P    | 1   |         |
|         |          |                         |     |               | C507    | ECQMIH561JCN | C.CAPACITOR CH 50V 560P   | 1   |         |
|         |          |                         |     |               | C508    | ECFA1HUR10   | E.CAPACITOR 50V 1U        | 1   |         |
|         |          |                         |     |               | C509-13 | ECFA1ESS101  | E.CAPACITOR 25V 100U      | 1   |         |
|         |          |                         |     |               | C514    | ECQMIH104JF  | P.CAPACITOR 50V 0.1U      | 1   |         |

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| Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|----------------------------|-----|---------|----------|--------------|---------------------------|-----|---------|
| C515     | ECEA1E04R7   | E. CAPACITOR 25V 4.7U      | 1   |         | C760     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C516-16  | ECEA1H04R7S  | E. CAPACITOR 50V 4.7U      | 3   |         | C761     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C519     | ECEA1H0010   | E. CAPACITOR 50V 1U        | 1   |         | C762     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
| C520-22  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | C763, 64 | ECEA1AU330   | E. CAPACITOR 10V 33U      | 2   |         |
| C523     | ECQMH104JF   | P. CAPACITOR 50V 0.1U      | 1   |         | C765     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C524     | ECEA1E04R7   | E. CAPACITOR 25V 4.7U      | 1   |         | C900-11  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 12  |         |
| C525, 26 | ECEA1H04R7S  | E. CAPACITOR 50V 4.7U      | 2   |         |          |              |                           |     |         |
| C527     | ECQMH104JF   | P. CAPACITOR 50V 0.1U      | 1   |         |          |              |                           |     |         |
| C528     | ECEA1H0010   | E. CAPACITOR 50V 1U        | 1   |         |          |              |                           |     |         |
| C529-31  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D1       | MA151K       | DIODE                     | 1   |         |
| C532     | ECEA1E04R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D4       | MA151K       | DIODE                     | 1   |         |
| C533, 34 | ECEA1H04R7S  | E. CAPACITOR 50V 4.7U      | 2   |         | D101     | MA151K       | DIODE                     | 1   |         |
| C535     | ECQMH104JF   | P. CAPACITOR 50V 0.1U      | 1   |         | D102     | MA153        | DIODE                     | 1   |         |
| C536     | ECEA1H0010   | E. CAPACITOR 50V 1U        | 1   |         | D103     | MA151WK      | DIODE                     | 1   |         |
| C537-39  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D104     | MA151K       | DIODE                     | 1   |         |
| C540     | ECEA1E04R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D105     | MA151WK      | DIODE                     | 1   |         |
| C541-43  | ECEA1H04R7S  | E. CAPACITOR 50V 4.7U      | 3   |         | D106, 07 | MA151WA      | DIODE                     | 2   |         |
| C544     | ECQMH104JF   | P. CAPACITOR 50V 0.1U      | 1   |         | D108     | MA151K       | DIODE                     | 1   |         |
| C545     | ECEA1H0010   | E. CAPACITOR 50V 1U        | 1   |         | D109     | MA151WK      | DIODE                     | 1   |         |
| C546-48  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D112     | MA151WK      | DIODE                     | 1   |         |
| C549     | ECEA1AU470   | E. CAPACITOR 10V 47U       | 1   |         | D113, 14 | MA151K       | DIODE                     | 2   |         |
| C550     | ECUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1   |         | D115     | MA153        | DIODE                     | 1   |         |
| C551     | ECEA1H04R7S  | E. CAPACITOR 50V 4.7U      | 1   |         | D116     | MA151K       | DIODE                     | 1   |         |
| C552     | ECQMH104JF   | P. CAPACITOR 50V 0.1U      | 1   |         | D119     | MA151WK      | DIODE                     | 1   |         |
| C553     | ECEA1H04R7S  | E. CAPACITOR 50V 4.7U      | 1   |         | D120-22  | MA151WA      | DIODE                     | 3   |         |
| C558-63  | ECQMH104JF   | P. CAPACITOR 50V 0.1U      | 1   |         | D123     | MA151K       | DIODE                     | 1   |         |
| C600     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P    | 1   |         | D125     | MA151K       | DIODE                     | 1   |         |
| C601     | ECUM1H050DCN | C. CAPACITOR CH 50V 50P    | 1   |         | D126, 27 | MA153        | DIODE                     | 2   |         |
| C602     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P    | 1   |         | D128     | MA151WA      | DIODE                     | 1   |         |
| C603     | ECUM1H050DCN | C. CAPACITOR CH 50V 50P    | 1   |         | D129     | MA151K       | DIODE                     | 1   |         |
| C700     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P   | 1   |         | D301, 02 | MA151K       | DIODE                     | 2   |         |
| C701     | ECQMH104JF   | P. CAPACITOR 50V 0.1U      | 1   |         | D303     | MA151WK      | DIODE                     | 1   |         |
| C702     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D304     | MA151WA      | DIODE                     | 1   |         |
| C703     | ECEA1H04R7S  | E. CAPACITOR 50V 4.7U      | 1   |         | D305     | MA151K       | DIODE                     | 1   |         |
| C704     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D307     | MA151WA      | DIODE                     | 1   |         |
| C705     | ECQMH1682JF  | P. CAPACITOR 50V 6800P     | 1   |         | D309     | MA151WK      | DIODE                     | 1   |         |
| C706-08  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D310     | MA151K       | DIODE                     | 1   |         |
| C709     | ECQPH151J2   | P. CAPACITOR 50V 150U      | 1   |         | D313     | MA151WA      | DIODE                     | 1   |         |
| C710, 11 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         | D314-17  | MA151WK      | DIODE                     | 4   |         |
| C712, 13 | ECQPH151J2   | P. CAPACITOR 50V 150U      | 2   |         | D318     | MA151K       | DIODE                     | 1   |         |
| C714-19  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D319, 20 | MA151WK      | DIODE                     | 2   |         |
| C720     | ECEA1CU220   | E. CAPACITOR 16V 22U       | 1   |         | D321, 22 | MA151K       | DIODE                     | 1   |         |
| C721     | ECQMH122JF   | P. CAPACITOR 50V 1200P     | 1   |         | D323, 24 | MA151WK      | DIODE                     | 2   |         |
| C722     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D325     | MA151K       | DIODE                     | 1   |         |
| C723     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         | D330     | MA151K       | DIODE                     | 1   |         |
| C724     | ECUM1H80JCN  | C. CAPACITOR CH 50V 18P    | 1   |         | D333     | MA151WK      | DIODE                     | 1   |         |
| C725     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D334-38  | MA151K       | DIODE                     | 1   |         |
| C726     | ECEA1CU330   | E. CAPACITOR 16V 33U       | 1   |         | D340     | MA151WA      | DIODE                     | 1   |         |
| C727     | ECQMH124JF   | P. CAPACITOR 50V 0.12U     | 1   |         | D341     | MA151K       | DIODE                     | 1   |         |
| C728, 29 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         | D345, 46 | MA151WA      | DIODE                     | 2   |         |
| C730-32  | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P  | 3   |         | D349     | MA151WK      | DIODE                     | 1   |         |
| C733     | ECQMH124JF   | P. CAPACITOR 50V 0.12U     | 1   |         | D351     | MA151K       | DIODE                     | 1   |         |
| C734, 35 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         | D501     | MA151K       | DIODE                     | 1   |         |
| C736     | ECQMH182JF   | P. CAPACITOR 50V 1800P     | 1   |         | D502     | MA151WK      | DIODE                     | 1   |         |
| C737     | ECEA1HUR33   | E. CAPACITOR 50V 0.33U     | 1   |         | D503     | MA153        | DIODE                     | 1   |         |
| C738     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D504     | MA151WK      | DIODE                     | 1   |         |
| C739     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         | D505, 06 | MA151K       | DIODE                     | 2   |         |
| C740     | ECEA1HUR33   | E. CAPACITOR 50V 0.33U     | 1   |         | D507     | MA151WK      | DIODE                     | 1   |         |
| C741     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D508, 09 | MA151K       | DIODE                     | 2   |         |
| C742     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         | D510     | MA151WK      | DIODE                     | 1   |         |
| C743     | ECEA1HUR33   | E. CAPACITOR 50V 0.33U     | 1   |         | D511     | MA151K       | DIODE                     | 1   |         |
| C744     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D514-17  | MA151A       | DIODE                     | 4   |         |
| C745     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         | D572     | MA151K       | DIODE                     | 1   |         |
| C746, 47 | ECEA1AU330   | E. CAPACITOR 10V 33U       | 2   |         | D700     | MA151WA      | DIODE                     | 1   |         |
| C748     | ECEA1HUR33   | E. CAPACITOR 50V 0.33U     | 1   |         | D701, 02 | 1SS101       | DIODE                     | 2   |         |
| C749     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D703     | MA151K       | DIODE                     | 1   |         |
| C750     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         | D704-06  | MA153        | DIODE                     | 3   |         |
| C751     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D707-09  | 1N25RP       | LED                       | 3   |         |
| C752     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P    | 1   |         | D710     | MA153        | DIODE                     | 1   |         |
| C753, 54 | ECEA1AU330   | E. CAPACITOR 10V 33U       | 1   |         | D711, 12 | MA1039       | DIODE                     | 2   |         |
| C755     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D713     | MA153        | DIODE                     | 1   |         |
| C756     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D714, 15 | MA1039       | DIODE                     | 2   |         |
| C757     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P   | 1   |         | D716-21  | MA153        | DIODE                     | 6   |         |
| C758     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |          |              |                           |     |         |
| C759     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         |          |              |                           |     |         |

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| Ref.No.   | Part No.     | Part Name & Description | Pcs   | Remarks | Ref.No.   | Part No.     | Part Name & Description | Pcs      | Remarks |
|-----------|--------------|-------------------------|-------|---------|-----------|--------------|-------------------------|----------|---------|
| IC1       | LM2904M      | IC                      | 1     |         | IC708     | VSIO623      | IC                      | 1        |         |
| IC2       | LM2903M      | IC                      | 1     |         | IC709     | MS19518ML    | IC                      | 1        |         |
| IC3       | LM2904M      | IC                      | 1     |         | IC710     | MC14538BF    | IC                      | 1        |         |
| IC4       | NUM4558M     | IC                      | 1     |         | IC711     | MSM5210RS    | IC                      | 1        |         |
| IC5       | MC14538BF    | IC                      | 1     |         | IC712     | UPD65024F137 | IC                      | 1        |         |
| IC6       | UPD65031F405 | IC                      | 1     |         | IC713     | UPC4082G     | IC                      | 1        |         |
| IC7       | MS53015VZW   | IC                      | 1     |         | IC714     | UPC4558G     | IC                      | 1        |         |
| IC8       | MC14049UBF   | IC                      | 1     |         | IC715     | MC14051BF    | IC                      | 1        |         |
| IC9       | MC14013BF    | IC                      | 1     |         | IC716     | UPC4082G     | IC                      | 1        |         |
| IC10      | MM74HC221AM  | IC                      | 1     |         | IC717     | UPC4741G     | IC                      | 1        |         |
| IC11      | AN78105      | IC                      | 1     |         | IC718     | UPC4558G     | IC                      | 1        |         |
| IC12      | MC14021BF    | IC                      | 1     |         | IC719     | MC14051BF    | IC                      | 1        |         |
| IC13      | MC14094BF    | IC                      | 1     |         | IC720     | MC14053BF    | IC                      | 1 (R)    |         |
| IC14      | MC14053BF    | IC                      | 1 (R) |         | IC721     | AN79105      | IC                      | 1        |         |
| IC15      | MC14049UBF   | IC                      | 1     |         | IC722     | AN78105      | IC                      | 1        |         |
| IC16      | MC14050BF    | IC                      | 1     |         | IC723     | AN78109      | IC                      | 1        |         |
| IC18      | MS51020V22   | IC                      | 1     |         | IC724     | AN79109      | IC                      | 1        |         |
| IC101     | LM2904M      | IC                      | 1     |         | IC725, 26 | LM2902M      | IC                      | 2        |         |
| IC102     | LM2903M      | IC                      | 1     |         | IC727     | LM2903M      | IC                      | 1        |         |
| IC103     | LM2904M      | IC                      | 1     |         | IC800     | LM2904M      | IC                      | 1        |         |
| IC104     | MC14538BF    | IC                      | 1     |         | ICS708    | VJS2336A026  | CONNECTOR (FEMALE)      | 1        |         |
| IC105     | AN79109      | IC                      | 1     |         |           |              |                         |          |         |
| IC106     | AN78N09      | IC                      | 1     |         |           |              |                         |          |         |
| IC107     | DN74LS293S   | IC                      | 1     |         |           |              |                         |          |         |
| IC108     | MC74HC00AP   | IC                      | 1     |         | L1        | VLP0017      | COIL                    | 1        |         |
| IC109     | MS6064R      | IC                      | 1     |         | L2-L4     | VLQEL05S221J | COIL 220UH              | 3        |         |
| IC110     | MS6168V1A    | IC                      | 1     |         | L101, 02  | VLQEL05S221J | COIL 220UH              | 2        |         |
| IC111     | MC74HC004F   | IC                      | 1     |         | L501      | VLQ0214      | COIL 50UH               | 1        |         |
| IC112     | MC14049UBF   | IC                      | 1     |         | L504-07   | VLQ0129      | COIL 300UH              | 4        |         |
| IC113, 14 | LM2904M      | IC                      | 2     |         | L701      | VLQEL05S101J | COIL 100UH              | 1        |         |
| IC115     | LM2903M      | IC                      | 1     |         | L702      | VLQ0128      | COIL 47UH               | 1        |         |
| IC116, 17 | LM2904M      | IC                      | 2     |         |           |              |                         |          |         |
| IC118-20  | MC14066BF    | IC                      | 3     |         |           |              |                         |          |         |
| IC121     | MC14052BF    | IC                      | 1     |         |           |              |                         |          |         |
| IC123     | MC14053BF    | IC                      | 1 (R) |         | Q1, Q2    | UN2213       | TRANSISTOR-RESISTOR     | 2        |         |
| IC124     | MS53030VVA   | IC                      | 1     |         | Q6, Q9    | UN2213       | TRANSISTOR-RESISTOR     | 2        |         |
| IC125     | MS53007VVC   | IC                      | 1     |         | Q10, 11   | UN2213       | TRANSISTOR-RESISTOR     | 2        |         |
| IC126     | UPC4558G     | IC                      | 1     |         | Q17       | UN2213       | TRANSISTOR-RESISTOR     | 1        |         |
| IC128     | NUM4558M     | IC                      | 1     |         | Q101      | 2SD601       | TRANSISTOR CHIP         | 1 (Q, R) |         |
| IC129     | MC14538BF    | IC                      | 1     |         | Q102      | UN2213       | TRANSISTOR-RESISTOR     | 1        |         |
| IC130     | MC14013BF    | IC                      | 1     |         | Q103      | 2SJ43        | TRANSISTOR              | 1        |         |
| IC131     | LM2904M      | IC                      | 1     |         | Q104      | UN2213       | TRANSISTOR-RESISTOR     | 1        |         |
| IC132     | UPC4558G     | IC                      | 1     |         | Q105      | 2SD601       | TRANSISTOR CHIP         | 1 (Q, R) |         |
| IC133     | MM40308S     | IC                      | 1     |         | Q106-08   | UN2213       | TRANSISTOR-RESISTOR     | 3        |         |
| IC134     | MC14538BF    | IC                      | 1     |         | Q109      | 2SD601       | TRANSISTOR CHIP         | 1 (Q, R) |         |
| IC135     | MC14053BF    | IC                      | 1 (R) |         | Q110-19   | UN2213       | TRANSISTOR-RESISTOR     | 10       |         |
| IC136     | MC74HC02AF   | IC                      | 1     |         | Q120      | 2SD601       | TRANSISTOR CHIP         | 1 (Q, R) |         |
| IC137     | MC14538BF    | IC                      | 1     |         | Q123, 24  | UN2213       | TRANSISTOR-RESISTOR     | 2        |         |
| IC301     | AN78105      | IC                      | 1     |         | Q128      | UN2213       | TRANSISTOR-RESISTOR     | 1        |         |
| IC302     | LM2904M      | IC                      | 1     |         | Q129      | UN2214       | TRANSISTOR-RESISTOR     | 1        |         |
| IC303     | LM2902M      | IC                      | 1     |         | Q130      | 2SK374       | TRANSISTOR              | 1        |         |
| IC304     | MC14053BF    | IC                      | 1 (R) |         | Q131-33   | UN2213       | TRANSISTOR-RESISTOR     | 3        |         |
| IC305     | MC14066BF    | IC                      | 1     |         | Q134, 35  | 2SB709       | TRANSISTOR CHIP         | 2 (Q, R) |         |
| IC306     | LM2904M      | IC                      | 1     |         | Q137-39   | UN2213       | TRANSISTOR-RESISTOR     | 3        |         |
| IC307     | LM2902M      | IC                      | 1     |         | Q140      | MA151A       | DIODE                   | 1        |         |
| IC308, 09 | LM2904M      | IC                      | 2     |         | Q301, 02  | UN2213       | TRANSISTOR-RESISTOR     | 2        |         |
| IC310-13  | MC14066BF    | IC                      | 4     |         | Q303      | UN2113       | TRANSISTOR-RESISTOR     | 1        |         |
| IC314     | MC14028BF    | IC                      | 1     |         | Q304      | UN2213       | TRANSISTOR-RESISTOR     | 1        |         |
| IC315     | MC14061BF    | IC                      | 1     |         | Q305      | UN2113       | TRANSISTOR-RESISTOR     | 1        |         |
| IC316     | NUM2901M     | IC                      | 1     |         | Q306-09   | UN2213       | TRANSISTOR-RESISTOR     | 4        |         |
| IC318     | MC14538BF    | IC                      | 1     |         | Q312-14   | UN2213       | TRANSISTOR-RESISTOR     | 3        |         |
| IC319     | MC14049UBF   | IC                      | 1     |         | Q316      | 2SD601       | TRANSISTOR CHIP         | 1 (Q, R) |         |
| IC501     | BA6149LS     | IC                      | 1     |         | Q317      | UN2213       | TRANSISTOR-RESISTOR     | 1        |         |
| IC502     | P4213        | IC                      | 1     |         | Q319      | 2SD601       | TRANSISTOR CHIP         | 1 (Q, R) |         |
| IC503-05  | AN3821K      | IC                      | 4     |         | Q320      | UN2213       | TRANSISTOR-RESISTOR     | 1        |         |
| IC600, 01 | MC74HC004F   | IC                      | 2     |         | Q336, 37  | UN2213       | TRANSISTOR-RESISTOR     | 2        |         |
| IC700     | AN608        | IC                      | 1     |         | Q340      | UN2213       | TRANSISTOR-RESISTOR     | 1        |         |
| IC701     | UPC4741G     | IC                      | 1     |         | Q343      | UN2213       | TRANSISTOR-RESISTOR     | 1        |         |
| IC702     | TL431CLP     | IC                      | 1     |         | Q346, 47  | UN2213       | TRANSISTOR-RESISTOR     | 2        |         |
| IC703     | MC14053BF    | IC                      | 1 (R) |         | Q501-04   | 2SB709       | TRANSISTOR CHIP         | 4 (Q, R) |         |
| IC704     | UPC4558G     | IC                      | 1     |         | Q505      | UN2113       | TRANSISTOR-RESISTOR     | 1        |         |
| IC705     | UPC4082G     | IC                      | 1     |         | Q506      | UN2213       | TRANSISTOR-RESISTOR     | 1        |         |
| IC706     | MC74HC157AP  | IC                      | 1     |         | Q507      | UN2113       | TRANSISTOR-RESISTOR     | 1        |         |
| IC707     | PN18882      | IC                      | 1     |         | Q508, 09  | UN2213       | TRANSISTOR-RESISTOR     | 2        |         |
|           |              |                         |       |         | Q700      | UN2113       | TRANSISTOR-RESISTOR     | 1        |         |

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| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| Q701-11  | UN2213      | TRANSISTOR-RESISTOR      | 11  |         | R139     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
|          |             |                          |     |         | R140     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
|          |             |                          |     |         | R141     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
|          |             |                          |     |         | R142     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
|          |             | RESISTORS                |     |         | R143     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R1       | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R144     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R2       | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R145     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R3       | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R146     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R4       | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R147, 48 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R5, R6   | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R149     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R7       | ERJ6GEYJ155 | M.RESISTOR CH 1/10W 1.5M | 1   |         | R150     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R8       | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R151     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R9       | ERJ6GEYJ125 | M.RESISTOR CH 1/10W 1.2M | 1   |         | R152     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R10      | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R153     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R11, 12  | VR80034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R154-56  | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 3   |         |
| R13      | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         | R157, 58 | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 2   |         |
| R14      | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R159     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R15      | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R160     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R16      | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         | R161     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R17      | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         | R162     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R18      | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R163     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R19, 20  | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 2   |         | R164     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R21      | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R165     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R22      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R166     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R23      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R167     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R24      | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R168     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R25      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R169     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R27      | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         | R170, 71 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R28-31   | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 4   |         | R172     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R34, 35  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R181, 82 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R36      | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R183     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R37-44   | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 8   |         | R184     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R45      | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R185     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R50      | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R186     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R51      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R187, 88 | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 2   |         |
| R52      | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R189     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R53      | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R190     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R54      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R191, 92 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R55      | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R193, 94 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R56      | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R195     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R57      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R196     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R58      | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R197     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R59      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R204     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R60      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R205     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R61      | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R206     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R62      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R207-09  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R64      | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R210     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R65      | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R211     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R69, 70  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R212     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R101     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R213-15  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 3   |         |
| R102     | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         | R216     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R103     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R222-27  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 6   |         |
| R104     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R228     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R105-07  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | R229     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R108     | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         | R230     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R109     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R231     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R110     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R232     | VR80034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R111     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R233     | VR80034E104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R112     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R234     | VR80034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R113     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R235     | VR80034E104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R114     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R236     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R115     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R237     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R116     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R238     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R117     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R239     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R118     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R240     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R119     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R241     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R120-22  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | R242     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R123     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R243     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R124     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R244, 45 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R125     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R246     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R126-32  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 7   |         | R247     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R133, 34 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R248     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R135, 36 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         | R249     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R137     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R250     | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         |
| R138     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R251     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| R252    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R366    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R253    | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         | R366    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R254-58 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         | R367,68 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R259    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R369    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R260    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R370,71 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R261    | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R373,74 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R262    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         | R376    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R263    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R378,79 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R264    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R380    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R265    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R381    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R266-69 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 4   |         | R382    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R270    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R383    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R271    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R386    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R273    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R388    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R274    | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180  | 1   |         | R389    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R275    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R390    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R276,77 | VR80034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R391    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R278    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R392,93 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R279-81 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 3   |         | R394,95 | VR80034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R282    | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         | R396,97 | VR80034E472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R283    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R398    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R284    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R424    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R285    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R427    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R286,87 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         | R428    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R288    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R432,33 | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R289    | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R434    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R301    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R435    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R302,03 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R437    | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R303    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         | R440    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R304    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R441,42 | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 2   |         |
| R305    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R443    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R306    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R445    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R307    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R446,47 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| R308    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R448    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R309    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R449    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R310    | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         | R460    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R311    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | R461    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R312    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R462    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R313    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R463    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R314    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         | R464    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1   |         |
| R315,16 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R465    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R317    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R466    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R318    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R467    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R319    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R469    | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         |
| R320    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R470    | ERJ6GEYJ394 | M.RESISTOR CH 1/10W 390K | 1   |         |
| R321    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R477    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R322    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R501    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R325,26 | VR80034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | R502    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R327    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R503    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R328    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R504-07 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 4   |         |
| R329    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R508    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R330    | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | R509-12 | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390  | 4   |         |
| R331    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R513    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R332,33 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | R514    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R334    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R515    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R335    | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         | R516    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R337,38 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R517    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R339,40 | VR80034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | R518    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R341    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R519    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R342    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R520    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R343    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R521,22 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2   |         |
| R344    | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | R523    | ERX125JR47  | M.RESISTOR 1/2W 0.47     | 1   |         |
| R345    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R524    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R346    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R525    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R347    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R526    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R348    | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         | R527    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R349,50 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R528    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R351    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R529    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R352-55 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         | R530    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R356    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R531    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R357    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R532    | ERX125JR68  | M.RESISTOR 1/2W 0.68     | 1   |         |
| R358    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R533    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R359,60 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R534    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R362,63 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R535    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R365    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R536    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |

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| Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R537     | ERJ12SR47   | M.RESISTOR 1/2W 0.47     | 1   |         | R797.98  | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R538-40  | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 3   |         | R799     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R541     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R800     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R542     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R801.02  | VR0034E103  | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R543     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R803     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R544     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R804.05  | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2   |         |
| R545     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R806     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R546     | ERJ12SR47   | M.RESISTOR 1/2W 0.47     | 1   |         | R807     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R547-49  | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 3   |         | R808     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R550     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R809     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R551     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R810.11  | VR0034E103  | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R553     | ERJ6GEYR000 | M.RESISTOR CH 1/10W 0    | 1   |         | R812     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R554     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R813.14  | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2   |         |
| R555-57  | ERJ6GEYR000 | M.RESISTOR CH 1/10W 0    | 3   |         | R815     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R600     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         | R816     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R601     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R817     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R603     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |          |             |                          |     |         |
| R604     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |          |             |                          |     |         |
| R700     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |     |         |
| R701     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | RA700.01 | VCR0202     | RESISTOR ARRAY           | 2   |         |
| R702     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | RA702    | EXBL08103G  | COMB1.R-R 10K            | 1   |         |
| R703     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          |             |                          |     |         |
| R704     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |     |         |
| R705     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |          |             |                          |     |         |
| R706     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | SW1.W2   | VSR0032     | VOLTAGE SELECT SWITCH    | 2   |         |
| R707     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | SW700    | VSS0207     | SWITCH                   | 1   |         |
| R708     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |          |             |                          |     |         |
| R709     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                          |     |         |
| R710     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |          |             |                          |     |         |
| R711     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |          |             |                          |     |         |
| R712     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | TP3-P7   | VJRO646     | TEST POINT               | 1   |         |
| R713.14  | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | TP13     | VJRO646     | TEST POINT               | 1   |         |
| R715     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | TP15-17  | VJRO646     | TEST POINT               | 3   |         |
| R716.17  | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | TP19.20  | VJRO646     | TEST POINT               | 2   |         |
| R718     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP102-05 | VJRO646     | TEST POINT               | 4   |         |
| R719-26  | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | TP108-18 | VJRO646     | TEST POINT               | 11  |         |
| R727-40  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 14  |         | TP201.02 | VJRO646     | TEST POINT               | 2   |         |
| R741     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP302-04 | VJRO646     | TEST POINT               | 3   |         |
| R742.43  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         | TP306    | VJRO646     | TEST POINT               | 1   |         |
| R744     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP309-12 | VJRO646     | TEST POINT               | 4   |         |
| R746-50  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP700-14 | VJRO646     | TEST POINT               | 15  |         |
| R751     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | TP61-G3  | VJRO646     | TEST POINT               | 3   |         |
| R752-54  | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 3   |         |          |             |                          |     |         |
| R755     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                          |     |         |
| R756-58  | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 3   |         | VC101    | ECV12W30X53 | V.CAPACITOR 30P          | 1   |         |
| R759     | ERJ6GEYJ283 | M.RESISTOR CH 1/10W 82K  | 1   |         |          |             |                          |     |         |
| R760     | ERJ6GEYJ282 | M.RESISTOR CH 1/10W 6.8K | 1   |         |          |             |                          |     |         |
| R761     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |          |             |                          |     |         |
| R762     | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         | VR1      | VRV0109B503 | V.RESISTOR 50K           | 1   |         |
| R763     | ERJ6GEYJ394 | M.RESISTOR CH 1/10W 390K | 1   |         | VR3      | VRV0109B503 | V.RESISTOR 50K           | 1   |         |
| R764     | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         | VR101    | VRV0109B203 | V.RESISTOR 20K           | 1   |         |
| R765     | ERJ6GEYJ394 | M.RESISTOR CH 1/10W 390K | 1   |         | VR102    | VRV0109B103 | V.RESISTOR 10K           | 1   |         |
| R766.67  | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         | VR103    | VRV0109B203 | V.RESISTOR 20K           | 1   |         |
| R768     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         | VR104    | VRV0109B502 | V.RESISTOR 5K            | 1   |         |
| R769     | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1   |         | VR105    | VRV0109B104 | V.RESISTOR 100K          | 1   |         |
| R770     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | VR301    | VRV0109B502 | V.RESISTOR 5K            | 1   |         |
| R771     | ERJ6GEYJ282 | M.RESISTOR CH 1/10W 6.8K | 1   |         | VR302.03 | VRV0109B202 | V.RESISTOR 2K            | 2   |         |
| R772-74  | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 3   |         | VR304-07 | VRV0109B503 | V.RESISTOR 50K           | 4   |         |
| R775     | ERJ6GEYJ283 | M.RESISTOR CH 1/10W 82K  | 1   |         | VR308    | VRV0109B202 | V.RESISTOR 2K            | 1   |         |
| R776     | ERJ6GEYJ282 | M.RESISTOR CH 1/10W 6.8K | 1   |         | VR309    | VRV0109B503 | V.RESISTOR 50K           | 1   |         |
| R777.78  | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 2   |         | VR700    | VRV0109B202 | V.RESISTOR 2K            | 1   |         |
| R779     | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         | VR701    | VRV0109B103 | V.RESISTOR 10K           | 1   |         |
| R780.81  | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         | VR702.03 | VRV0064B503 | V.RESISTOR 50K           | 2   |         |
| R782     | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         | VR704-07 | VRV0064B203 | V.RESISTOR 20K           | 4   |         |
| R783     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | VR706.09 | VRV0109B102 | V.RESISTOR 1K            | 1   |         |
| R784     | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         |          |             |                          |     |         |
| R785     | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         |          |             |                          |     |         |
| R786.67  | ERJ6GEYJ394 | M.RESISTOR CH 1/10W 390K | 2   |         |          |             |                          |     |         |
| R788.69  | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         | X101     | VSK0217     | CRYSTAL OSCILLATOR       | 1   |         |
| R790     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         | X501     | VSK0136     | CRYSTAL OSCILLATOR       | 1   |         |
| R791     | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1   |         | X600     | VSK0126     | CRYSTAL OSCILLATOR       | 1   |         |
| R792     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | X601     | VSK0086     | CRYSTAL OSCILLATOR       | 1   |         |
| R793     | ERJ6GEYJ282 | M.RESISTOR CH 1/10W 6.8K | 1   |         | X700     | VSK0257     | CRYSTAL OSCILLATOR       | 1   |         |
| R794.95  | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |          |             |                          |     |         |
| R796     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |          |             |                          |     |         |

Refer to the P.C. BOARD LIST, page 6-1-1, before using this page.



| Ref. No. | Part No.     | Part Name & Description    | Pcs | Remarks     | Ref. No. | Part No.     | Part Name & Description    | Pcs | Remarks |
|----------|--------------|----------------------------|-----|-------------|----------|--------------|----------------------------|-----|---------|
|          | VEP64095A    | P.C. BOARD W/COMPONENT     |     | FOR AU-65-P |          |              |                            |     |         |
|          |              | MS AUDIO                   |     |             |          |              |                            |     |         |
|          |              |                            |     |             |          |              |                            |     |         |
|          |              |                            |     |             |          |              |                            |     |         |
|          |              |                            |     |             |          |              |                            |     |         |
|          |              |                            |     |             |          |              |                            |     |         |
|          |              |                            |     |             |          |              |                            |     |         |
|          |              |                            |     |             |          |              |                            |     |         |
|          |              |                            |     |             |          |              |                            |     |         |
|          |              |                            |     |             |          |              |                            |     |         |
|          |              | CAPACITORS                 |     |             |          |              |                            |     |         |
| C1, C2   | ECEA1CU470   | E. CAPACITOR 16V 47U       | 2   |             | C214     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
| C3       | ECEA1CU101   | E. CAPACITOR 6.3V 100U     | 1   |             | C215     | ECUM1E153KBN | C. CAPACITOR CH 25V 0.015U | 1   |         |
| C4       | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 1   |             | C216     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
| C5       | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |             | C217     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
| C6       | ECUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1   |             | C218     | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P  | 1   |         |
| C7       | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P  | 1   |             | C219     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
| C8       | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 1   |             | C220     | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P  | 1   |         |
| C9       | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |             | C301     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |         |
| C10      | ECEA1CN100S  | E. CAPACITOR 16V 10U       | 1   |             | C302     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
| C11      | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P  | 1   |             | C303     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         |
| C12      | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |             | C304     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
| C13, 14  | ECEA1CU470   | E. CAPACITOR 16V 47U       | 2   |             | C305     | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 1   |         |
| C17      | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P  | 1   |             | C306     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         |
| C101     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |             | C307     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 1   |         |
| C102     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |             | C308     | ECEA1CP2101  | E. CAPACITOR 16V 100U      | 1   |         |
| C103     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |             | C309     | ECEA1CB2470  | E. CAPACITOR 16V 47U       | 1   |         |
| C104     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |             | C310     | ECEA1CP2101  | E. CAPACITOR 16V 100U      | 1   |         |
| C105     | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 1   |             | C311     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 1   |         |
| C106     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |             | C312, 13 | ECEA1CP2101  | E. CAPACITOR 16V 100U      | 2   |         |
| C107     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 1   |             | C314     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
| C108     | ECEA1CP2101  | E. CAPACITOR 16V 100U      | 1   |             | C315     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |         |
| C109     | ECEA1CB2470  | E. CAPACITOR 16V 47U       | 1   |             | C316, 17 | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 2   |         |
| C110     | ECEA1CP2101  | E. CAPACITOR 16V 100U      | 1   |             | C318     | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 1   |         |
| C111     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 1   |             | C320     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         |
| C112, 13 | ECEA1CP2101  | E. CAPACITOR 16V 100U      | 2   |             | C321     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |         |
| C114     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |             | C322     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P   | 1   |         |
| C115     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |             | C324     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         |
| C116, 17 | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 2   |             | C325     | ECEA1CP2471  | E. CAPACITOR 6.3V 470U     | 1   |         |
| C118     | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 1   |             | C327, 28 | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 2   |         |
| C120     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |             | C329     | ECUM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |         |
| C121     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |             | C330     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P   | 1   |         |
| C122     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P   | 1   |             | C331, 32 | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 2   |         |
| C124     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |             | C333     | ECUM1H562KBN | C. CAPACITOR CH 50V 5600P  | 1   |         |
| C125     | ECEA1CP2471  | E. CAPACITOR 6.3V 470U     | 1   |             | C334, 35 | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 2   |         |
| C127, 28 | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 2   |             | C336     | ECQP1H472FZ  | P. CAPACITOR 50V 4700P     | 1   |         |
| C129     | ECUM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |             | C337     | ECEA1CP2100  | E. CAPACITOR 16V 10U       | 1   |         |
| C130     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P   | 1   |             | C338     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |         |
| C131, 32 | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 2   |             | C339     | ECEA1HP2R22  | E. CAPACITOR 50V 0.22U     | 1   |         |
| C133     | ECUM1H562KBN | C. CAPACITOR CH 50V 5600P  | 1   |             | C340, 41 | ECEA1HP2R68  | E. CAPACITOR 50V 0.98U     | 2   |         |
| C134, 35 | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 2   |             | C342     | ECEA1HP2R22  | E. CAPACITOR 50V 0.22U     | 1   |         |
| C136     | ECQP1H472FZ  | P. CAPACITOR 50V 4700P     | 1   |             | C343     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |         |
| C137     | ECEA1CP2100  | E. CAPACITOR 16V 10U       | 1   |             | C344     | ECEA1CP2100  | E. CAPACITOR 16V 10U       | 1   |         |
| C138     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |             | C345     | ECQP1H472FZ  | P. CAPACITOR 50V 4700P     | 1   |         |
| C139     | ECEA1HP2R22  | E. CAPACITOR 50V 0.22U     | 1   |             | C346     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
| C140, 41 | ECEA1HP2R68  | E. CAPACITOR 50V 0.98U     | 2   |             | C347     | ECQP1H103FZ  | P. CAPACITOR 50V 0.01U     | 1   |         |
| C142     | ECEA1HP2R22  | E. CAPACITOR 50V 0.22U     | 1   |             | C348, 49 | ECQM1H394JF  | P. CAPACITOR 50V 0.39U     | 2   |         |
| C143     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |             | C401     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P   | 1   |         |
| C144     | ECEA1CP2100  | E. CAPACITOR 16V 10U       | 1   |             | C402     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
| C145     | ECQP1H472FZ  | P. CAPACITOR 50V 4700P     | 1   |             | C403     | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P  | 1   |         |
| C146     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |             | C404, 05 | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 2   |         |
| C147     | ECQP1H103FZ  | P. CAPACITOR 50V 0.01U     | 1   |             | C406     | ECEA1CB2470  | E. CAPACITOR 16V 47U       | 1   |         |
| C148, 49 | ECQM1H394JF  | P. CAPACITOR 50V 0.39U     | 2   |             | C407     | ECUM1H682KBN | C. CAPACITOR CH 50V 6800P  | 1   |         |
| C201     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P   | 1   |             | C408     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |         |
| C202     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |             | C409     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
| C203     | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P  | 1   |             | C410     | ECQP1H394JF  | P. CAPACITOR 50V 0.39U     | 1   |         |
| C204, 05 | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 2   |             | C411     | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P  | 1   |         |
| C206     | ECEA1CB2470  | E. CAPACITOR 16V 47U       | 1   |             | C412     | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P  | 1   |         |
| C207     | ECUM1H682KBN | C. CAPACITOR CH 50V 6800P  | 1   |             | C413     | ECUM1H682KBN | C. CAPACITOR CH 50V 6800P  | 1   |         |
| C208     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |             | C414     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
| C209     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |             | C415     | ECUM1E153KBN | C. CAPACITOR CH 25V 0.015U | 1   |         |
| C210     | ECQM1H394JF  | P. CAPACITOR 50V 0.39U     | 1   |             | C416     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
| C211     | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P  | 1   |             | C417     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
| C212     | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P  | 1   |             | C418     | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P  | 1   |         |
| C213     | ECUM1H682KBN | C. CAPACITOR CH 50V 6800P  | 1   |             | C419     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
|          |              |                            |     |             | C420     | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P  | 1   |         |
|          |              |                            |     |             | C501     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
|          |              |                            |     |             | C503     | ECEA1CU220   | E. CAPACITOR 16V 22U       | 1   |         |
|          |              |                            |     |             | C551     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 1   |         |
|          |              |                            |     |             | C553     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
|          |              |                            |     |             | C554, 55 | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 2   |         |
|          |              |                            |     |             | C556     | ECEA1CU101   | E. CAPACITOR 35V 100U      | 1   |         |
|          |              |                            |     |             | C557     | ECEA1E101    | E. CAPACITOR 25V 100U      | 1   |         |
|          |              |                            |     |             | C558     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|          |              |                            |     |             | C559, 60 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|          |              |                            |     |             | C561     | ECEA1E10100  | E. CAPACITOR 25V 10U       | 1   |         |

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| Ref.No.  | Part No.     | Part Name & Description | Pcs   | Remarks | Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-------|---------|---------|----------|-------------------------|-----|---------|
| FL901    | ELB4L053     | FILTER                  | 1     |         | Q12     | 2SB710   | TRANSISTOR              | 1   |         |
| FL902    | ELB4M043     | FILTER                  | 1     |         | Q14     | UN2210   | TRANSISTOR-RESISTOR     | 1   |         |
|          |              |                         |       |         | Q101    | UN2113   | TRANSISTOR-RESISTOR     | 1   |         |
|          |              |                         |       |         | Q102    | UN2213   | TRANSISTOR-RESISTOR     | 1   |         |
|          |              |                         |       |         | Q103-05 | 2SD601   | TRANSISTOR CHIP         | 5   | (Q,R)   |
| IC1-C3   | UPD4053BG    | IC                      | 3     |         | Q106    | UN2213   | TRANSISTOR-RESISTOR     | 1   |         |
| IC4      | NJM4558M     | IC                      | 1     |         | Q107    | 2SD1328  | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC5,C5   | RC082BM      | IC                      | 2     |         | Q108    | UN2113   | TRANSISTOR-RESISTOR     | 1   |         |
| IC101    | AN6558S      | IC                      | 1     |         | Q109,10 | 2SD601   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| IC102    | RC4566MB     | IC                      | 1     |         | Q111,12 | 2SD1011  | TRANSISTOR              | 2   |         |
| IC103    | UPD4053BG    | IC                      | 1     |         | Q113    | 2SA1018  | TRANSISTOR              | 1   | (R)     |
| IC104    | NJM4558M     | IC                      | 1     |         | Q114    | 2SK146   | TRANSISTOR              | 1   | (B,L)   |
| IC105    | TEA0666T     | IC                      | 1     |         | Q115    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC106    | AN78N09      | IC                      | 1     |         | Q116    | 2SB709   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC107    | AN79N09      | IC                      | 1     |         | Q117    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC108    | NJM4558M     | IC                      | 1     |         | Q118-20 | UN2213   | TRANSISTOR-RESISTOR     | 3   |         |
| IC201-03 | NJM4558M     | IC                      | 3     |         | Q122    | UN2213   | TRANSISTOR-RESISTOR     | 1   |         |
| IC273    | TEA0666T     | IC                      | 1     |         | Q201    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC301    | AN6558S      | IC                      | 1     |         | Q202    | 2SB709   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC302    | RC4566MB     | IC                      | 1     |         | Q203    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC303    | UPD4053BG    | IC                      | 1     |         | Q204    | 2SB709   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC304    | NJM4558M     | IC                      | 1     |         | Q205    | 2SD1328  | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC305    | TEA0666T     | IC                      | 1     |         | Q301    | UN2113   | TRANSISTOR-RESISTOR     | 1   |         |
| IC306    | AN78N09      | IC                      | 1     |         | Q302    | UN2213   | TRANSISTOR-RESISTOR     | 1   |         |
| IC307    | AN79N09      | IC                      | 1     |         | Q303-05 | 2SD601   | TRANSISTOR CHIP         | 3   | (Q,R)   |
| IC308    | NJM4558M     | IC                      | 1     |         | Q306    | UN2213   | TRANSISTOR-RESISTOR     | 1   |         |
| IC401-03 | NJM4558M     | IC                      | 3     |         | Q307    | 2SD1328  | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC473    | TEA0666T     | IC                      | 1     |         | Q308    | UN2113   | TRANSISTOR-RESISTOR     | 1   |         |
| IC552    | MB620412PF   | IC                      | 1     |         | Q309,10 | 2SD601   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| IC553    | AN78L20      | IC                      | 1     |         | Q311,12 | 2SD1011  | TRANSISTOR              | 2   |         |
| IC554-56 | 1M2904M      | IC                      | 3     |         | Q313    | 2SA1018  | TRANSISTOR              | 1   | (R)     |
| IC701    | NJM4558M     | IC                      | 1     |         | Q314    | 2SK146   | TRANSISTOR              | 1   | (B,L)   |
| IC703    | NJM4558M     | IC                      | 1     |         | Q315    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC801    | NJM4558M     | IC                      | 1     |         | Q316    | 2SB709   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC902    | UPD4053BG    | IC                      | 1     |         | Q317    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC803,04 | NJM4558M     | IC                      | 2     |         | Q318-20 | UN2213   | TRANSISTOR-RESISTOR     | 3   |         |
| IC805    | BA7700K1     | IC                      | 1     |         | Q322    | UN2213   | TRANSISTOR-RESISTOR     | 1   |         |
| IC901    | AN78L12      | IC                      | 1     |         | Q401    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC902    | AN78L05      | IC                      | 1     |         | Q402    | 2SB709   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC903    | AN79L09      | IC                      | 1     |         | Q403    | 2SD601   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC904    | AN78L09      | IC                      | 1     |         | Q404    | 2SB709   | TRANSISTOR CHIP         | 1   | (Q,R)   |
|          |              |                         |       |         | Q405    | 2SD1328  | TRANSISTOR CHIP         | 1   | (Q,R)   |
|          |              |                         |       |         | Q501    | 2SB709   | TRANSISTOR CHIP         | 1   | (Q,R)   |
|          |              |                         |       |         | Q502    | UN2113   | TRANSISTOR-RESISTOR     | 1   |         |
| L1       | B1R7Q0010B   | IF TRANSFORMER          | 1     |         | Q551-62 | UN2213   | TRANSISTOR-RESISTOR     | 12  |         |
| L101,02  | VLQEL05F101K | COIL                    | 100UH | 2       | Q563,64 | UN2113   | TRANSISTOR-RESISTOR     | 2   |         |
| L301,02  | VLQEL05F101K | COIL                    | 100UH | 2       | Q565-68 | 2SC2295  | TRANSISTOR CHIP         | 4   | (B,C)   |
| L551     | VLQEL05S2R2K | COIL                    | 2.2UH | 1       | Q571    | 2SC2497  | TRANSISTOR              | 1   |         |
| L552     | VLQEL05S471K | COIL                    | 470UH | 1       | Q572    | 2SB710   | TRANSISTOR              | 1   |         |
| L553,54  | VLQEL05S470J | COIL                    | 47UH  | 2       | Q573,74 | 2SD1994A | TRANSISTOR              | 2   | (Q,R)   |
| L901     | VLQEL05S470J | COIL                    | 47UH  | 1       | Q575    | 2SC2497  | TRANSISTOR              | 1   |         |
| L902     | VLQEL05S221J | COIL                    | 220UH | 1       | Q576    | 2SB710   | TRANSISTOR              | 1   |         |
| L903     | VLQEL05F101K | COIL                    | 100UH | 1       | Q577,78 | 2SD1994A | TRANSISTOR              | 2   | (Q,R)   |
| L904     | VLQEL05S820J | COIL                    | 82UH  | 1       | Q579    | 2SD1992A | TRANSISTOR              | 1   |         |
| L905     | VLQEL05S331J | COIL                    | 330UH | 1       | Q580    | 2SB710   | TRANSISTOR              | 1   |         |
| L906,07  | VLQEL05F101K | COIL                    | 100UH | 2       | Q581,82 | 2SD1994A | TRANSISTOR              | 2   | (Q,R)   |
| L909     | VLQEL05S271J | COIL                    | 270UH | 1       | Q583    | 2SB710   | TRANSISTOR              | 1   |         |
| L910-13  | VLQEL05F101K | COIL                    | 100UH | 4       | Q584,85 | 2SD1328  | TRANSISTOR CHIP         | 2   | (Q,R)   |
|          |              |                         |       |         | Q587    | 2SB710   | TRANSISTOR              | 1   |         |
|          |              |                         |       |         | Q588,89 | 2SD1994A | TRANSISTOR              | 2   | (Q,R)   |
|          |              |                         |       |         | Q590    | 2SB710   | TRANSISTOR              | 1   |         |
| P101     | WJP1232R     | CONNECTOR(MALE)         | 5P    | 1       | Q591,92 | 2SD1328  | TRANSISTOR CHIP         | 2   | (Q,R)   |
| P301     | WJP1232G     | CONNECTOR(MALE)         |       | 1       | Q593    | 2SC2497  | TRANSISTOR              | 1   |         |
| P551     | WJP1239T     | CONNECTOR(MALE)         | 12P   | 1       | Q594    | 2SB710   | TRANSISTOR              | 1   |         |
| P553     | WJP1230T     | CONNECTOR(MALE)         | 3P    | 1       | Q595,96 | 2SD1994A | TRANSISTOR              | 2   | (Q,R)   |
|          |              |                         |       |         | Q597    | 2SD1992A | TRANSISTOR              | 1   |         |
|          |              |                         |       |         | Q598    | 2SB710   | TRANSISTOR              | 1   |         |
|          |              |                         |       |         | Q599,00 | 2SD1994A | TRANSISTOR              | 2   | (Q,R)   |
| Q1       | 2SD602       | TRANSISTOR              | 1     | (Q,R)   | Q601    | 2SB710   | TRANSISTOR              | 1   |         |
| Q2       | UN2113       | TRANSISTOR-RESISTOR     | 1     |         | Q602,03 | 2SD1328  | TRANSISTOR CHIP         | 2   | (Q,R)   |
| Q3       | 2SA1018      | TRANSISTOR              | 1     | (R)     | Q604    | UN2213   | TRANSISTOR-RESISTOR     | 1   |         |
| Q4,Q5    | 2SC3478A     | TRANSISTOR              | 2     |         | Q605    | 2SB710   | TRANSISTOR              | 1   |         |
| Q6       | 2SD602       | TRANSISTOR              | 1     | (Q,R)   | Q606    | 2SD1992A | TRANSISTOR              | 1   |         |
| Q7       | 2SD1328      | TRANSISTOR CHIP         | 1     | (Q,R)   | Q607    | 2SB710   | TRANSISTOR              | 1   |         |
| Q11      | UN2211       | TRANSISTOR-RESISTOR     | 1     |         | Q608,09 | 2SD1994A | TRANSISTOR              | 2   | (Q,R)   |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs     | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|---------|---------|---------|-------------|--------------------------|-----|---------|
| Q610    | 2SB710      | TRANSISTOR               | 1       |         | R124    | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         |
| Q611,12 | 2SD1328     | TRANSISTOR CHIP          | 2 (Q,R) |         | R125    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1   |         |
| Q613    | UN2213      | TRANSISTOR-RESISTOR      | 1       |         | R126    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| Q614    | 2SB710      | TRANSISTOR               | 1       |         | R127    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q615    | 2SD1992A    | TRANSISTOR               | 1       |         | R128    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| Q616    | 2SB710      | TRANSISTOR               | 1       |         | R129    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| Q617,18 | 2SD1994A    | TRANSISTOR               | 2 (Q,R) |         | R130    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q619-21 | UN2213      | TRANSISTOR-RESISTOR      | 3       |         | R131    | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1   |         |
| Q701    | 2SD1328     | TRANSISTOR CHIP          | 1 (Q,R) |         | R133,34 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| Q702    | 2SD601      | TRANSISTOR CHIP          | 1 (Q,R) |         | R135    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| Q801    | 2SD1328     | TRANSISTOR CHIP          | 1 (Q,R) |         | R136    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| Q802    | 2SD601      | TRANSISTOR CHIP          | 1 (Q,R) |         | R137    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q901    | UN2113      | TRANSISTOR-RESISTOR      | 1       |         | R138,39 | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 2   |         |
| Q902-04 | UN2213      | TRANSISTOR-RESISTOR      | 3       |         | R140    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q909    | 2SC2404     | TRANSISTOR CHIP          | 1 (B,C) |         | R141    | VRE0034E473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| Q910,11 | 2SD601      | TRANSISTOR CHIP          | 2 (Q,R) |         | R142    | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| Q912    | 2SC2404     | TRANSISTOR CHIP          | 1 (B,C) |         | R143    | VRE0034E470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q913,14 | 2SD601      | TRANSISTOR CHIP          | 2 (Q,R) |         | R144    | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| Q915    | 2SC2404     | TRANSISTOR CHIP          | 1 (B,C) |         | R145    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q916,17 | 2SD601      | TRANSISTOR CHIP          | 2 (Q,R) |         | R146    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| Q920    | UN2113      | TRANSISTOR-RESISTOR      | 1       |         | R147    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
|         |             |                          |         |         | R148,49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
|         |             |                          |         |         | R150    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|         |             |                          |         |         | R151    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
|         |             |                          |         |         | R152    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
|         |             | RESISTORS                |         |         | R153    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R1      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         | R154    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R2      | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1       |         | R155    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R3,R4   | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         | R156    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R5      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         | R157    | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R6,R7   | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2       |         | R158    | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R8      | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1       |         | R159    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R9      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         | R160    | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R10     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1       |         | R161    | VRE0034E333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R11     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         | R162    | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R12     | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1       |         | R163    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R13     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         | R164    | VRE0034E683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R14     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         | R165    | VRE0034E222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R15     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1       |         | R166    | VRE0034E512 | M.RESISTOR CH 1/10W 5.1K | 1   |         |
| R16     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1       |         | R167    | VRE0034E822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R17     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1       |         | R168    | VRE0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         |
| R18     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         | R169    | VRE0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R19     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1       |         | R201    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R20     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         | R202    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R21     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1       |         | R204    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R22     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1       |         | R205    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R23     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         | R206    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R24     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         | R207    | ERJ6GEYJ132 | M.RESISTOR CH 1/10W 1.3K | 1   |         |
| R25     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1       |         | R208    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R26     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         | R209    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R27     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         | R210-12 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 3   |         |
| R29     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         | R213    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R30     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         | R214    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R39     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1       |         | R215    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R42,43  | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2       |         | R216    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R44     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1       |         | R217    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R49     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         | R218    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R50     | BRDS2TJ223  | C.RESISTOR 1/4W 22K      | 1       |         | R219    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R101,02 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2       |         | R220    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R104,05 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2       |         | R221    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R106    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         | R222    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R107    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1       |         | R223    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R108    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1       |         | R224,25 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R109    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         | R226    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R110    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         | R227    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R111    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1       |         | R228    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R112    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1       |         | R229    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R113    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         | R230    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R114    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1       |         | R231    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R115    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         | R232    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R116    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1       |         | R233    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R117    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         | R235    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R118-20 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 3       |         | R236    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R121    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         | R301,02 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R122    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         | R304    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R123    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |         |             |                          |     |         |

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| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R306     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R422     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R307     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R423     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R308     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R424, 25 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R309     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R426     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R310     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R427     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R311     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R428     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R312     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R429     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R313     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R430     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R314     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R431     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R315     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R432     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R316     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R433     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R317     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R435     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R318-20  | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 3   |         | R436     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R321     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R501     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R322     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R502, 03 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R323     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R508     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R324     | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         | R509     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R325     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         | R551     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R326     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R552     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R327     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R553     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R328     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         | R554     | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R329     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R555     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R330     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R556     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R331     | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1   |         | R557     | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R333, 34 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         | R558     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R335     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R559     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R336     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | R560     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R337     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R561     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R338, 39 | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 2   |         | R563     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R340     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R564     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R341     | VRE0034E473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R567     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R342     | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R569     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R343     | VRE0034E470 | M.RESISTOR CH 1/10W 47   | 1   |         | R570     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R344     | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R571     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R345     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R572, 73 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R346     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R574     | ERDS2TJ8R2  | C.RESISTOR 1/4W 8.2      | 1   |         |
| R347     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R575     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R348, 49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R576     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R350     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R577, 78 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R351     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R579     | ERDS2TJ8R2  | C.RESISTOR 1/4W 8.2      | 1   |         |
| R352     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R580     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R353     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R581     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R354     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R582     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R355     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R583     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R356     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R584, 85 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R357     | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R586, 87 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R358     | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R588     | ERDS2TJ100  | C.RESISTOR 1/4W 10       | 1   |         |
| R359     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R589     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R360     | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R590, 91 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R361     | VRE0034E333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R592     | ERJ6GEYK1R0 | M.RESISTOR CH 1/10W 1    | 1   |         |
| R362     | VRE0034E923 | M.RESISTOR CH 1/10W 92K  | 1   |         | R593     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R363     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R594     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R364     | VRE0034E583 | M.RESISTOR CH 1/10W 58K  | 1   |         | R595     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R365     | VRE0034E222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R596     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R366     | VRE0034E512 | M.RESISTOR CH 1/10W 5.1K | 1   |         | R597, 98 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R367     | VRE0034E822 | M.RESISTOR CH 1/10W 8.2K | 1   |         | R599, 00 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R368     | VRE0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         | R601     | ERDS2TJ100  | C.RESISTOR 1/4W 10       | 1   |         |
| R369     | VRE0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         | R602     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R401     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R603, 04 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R402-04  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | R605     | ERJ6GEYK1R0 | M.RESISTOR CH 1/10W 1    | 1   |         |
| R405     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R606     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R406     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R607     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R407     | ERJ6GEYJ132 | M.RESISTOR CH 1/10W 1.3K | 1   |         | R608, 09 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R408     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R610, 11 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2   |         |
| R409     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R612     | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         |
| R410-12  | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 3   |         | R613     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R413     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R614     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R414     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R615     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R415     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R616     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R416     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R617, 18 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R417     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R619, 20 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R418     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R621     | ERDS2TJ683  | C.RESISTOR 1/4W 6.8      | 1   |         |
| R419     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R622     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R420     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R623, 24 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R421     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R625     | ERJ6GEYK1R0 | M.RESISTOR CH 1/10W 1    | 1   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R626    | ERJ6GEYJ104 | M.RESISTOR CH1/10W 180K  | 1   |         | R845     | ERJ6GEYJ273 | M.RESISTOR CH1/10W 27K   | 1   |         |
| R627,28 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R901     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R629,30 | ERJ6GEYJ220 | M.RESISTOR CH1/10W 22    | 2   |         | R904     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R631,32 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | R905     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R633    | ERDS2J6R8   | C.RESISTOR 1/4W 6.8      | 1   |         | R906     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R634    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R907     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R635,36 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R909     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R637    | ERJ6GEYK100 | M.RESISTOR CH 1/10W 1    | 1   |         | R910     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R639    | ERJ6GEYJ104 | M.RESISTOR CH1/10W 180K  | 1   |         | R914     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R639,40 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R917,18  | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 2   |         |
| R641,42 | ERJ6GEYJ220 | M.RESISTOR CH1/10W 22    | 2   |         | R919,20  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R643,44 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | R921     | VRE0034E223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R645    | ERDS2J6R8   | C.RESISTOR 1/4W 6.8      | 1   |         | R922,23  | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R646    | ERJ6GEYK100 | M.RESISTOR CH 1/10W 1    | 1   |         | R924     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R647-50 | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 4   |         | R925     | ERJ6GEYJ123 | M.RESISTOR CH1/10W 12K   | 1   |         |
| R651,52 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R926     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R655,56 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 2   |         | R927     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R657    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R928     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R658    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | R929     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R659    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R930-32  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R660,61 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         | R933     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R662,63 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 2   |         | R934     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R664,65 | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 2   |         | R935     | ERJ6GEYJ273 | M.RESISTOR CH1/10W 27K   | 1   |         |
| R666    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R936     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R667    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R937-39  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R670-73 | ERDS2J102   | C.RESISTOR 1/4W 1K       | 4   |         | R940     | ERJ6GEYJ560 | M.RESISTOR CH 1/10W 56   | 1   |         |
| R701    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R941     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R702,03 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | R942     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R704    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R943     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R705    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R944     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R706    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R945     | ERJ6GEYJ273 | M.RESISTOR CH1/10W 27K   | 1   |         |
| R707,08 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | R946-48  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R709    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R949     | ERJ6GEYJ390 | M.RESISTOR CH 1/10W 39   | 1   |         |
| R710    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R950     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R718    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R951     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R719,20 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | R952     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R728,29 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 2   |         | R953     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R730    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R954     | ERJ6GEYJ273 | M.RESISTOR CH1/10W 27K   | 1   |         |
| R731    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | R955,56  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R732    | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         | R957     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R733    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R958     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R734    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R959     | ERJ6GEYJ273 | M.RESISTOR CH1/10W 27K   | 1   |         |
| R735    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R960     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R736    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R961     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R737,38 | ERJ6GEYJ122 | M.RESISTOR CH1/10W 1.2K  | 2   |         | R962     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R739    | VRE0034E362 | M.RESISTOR CH 1/10W 3.6K | 1   |         | R963     | ERJ6GEYJ560 | M.RESISTOR CH 1/10W 56   | 1   |         |
| R740    | ERJ6GEYJ122 | M.RESISTOR CH1/10W 1.2K  | 1   |         | R964     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R741,42 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R965     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R743    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R966     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R744    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |          |             |                          |     |         |
| R745    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          |             |                          |     |         |
| R801    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                          |     |         |
| R802,03 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | SW101    | VSS023703   | SWITCH                   | 1   |         |
| R804    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | SW201    | VSS023703   | SWITCH                   | 1   |         |
| R805    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | SW301    | VSS023703   | SWITCH                   | 1   |         |
| R806    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | SW401    | VSS023703   | SWITCH                   | 1   |         |
| R807,08 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |          |             |                          |     |         |
| R809    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |          |             |                          |     |         |
| R810    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |          |             |                          |     |         |
| R818    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |          |             |                          |     |         |
| R819,20 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | T551,52  | VLTO602     | TRANSFORMER              | 2   |         |
| R828,29 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 2   |         | T553,54  | VLTO603     | TRANSFORMER              | 2   |         |
| R830    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | T555     | VLTO304     | TRANSFORMER              | 1   |         |
| R831    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | T556-58  | VLTO603     | TRANSFORMER              | 3   |         |
| R832    | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         |          |             |                          |     |         |
| R833    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |     |         |
| R834    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | TP1      | VJRO582     | PACK PIN                 | 1   |         |
| R835    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | TP101,02 | VJRO582     | PACK PIN                 | 2   |         |
| R836    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | TP104,05 | VJRO582     | PACK PIN                 | 2   |         |
| R837,38 | ERJ6GEYJ122 | M.RESISTOR CH1/10W 1.2K  | 2   |         | TP201    | VJRO582     | PACK PIN                 | 1   |         |
| R839    | VRE0034E362 | M.RESISTOR CH 1/10W 3.6K | 1   |         | TP301,02 | VJRO582     | PACK PIN                 | 2   |         |
| R840    | ERJ6GEYJ122 | M.RESISTOR CH1/10W 1.2K  | 1   |         | TP304,05 | VJRO582     | PACK PIN                 | 2   |         |
| R841,42 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | TP401    | VJRO582     | PACK PIN                 | 1   |         |
| R843    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | TP501    | VJRO582     | PACK PIN                 | 1   |         |
| R844    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | TP551-58 | VJRO582     | PACK PIN                 | 8   |         |

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| Ref.No. | Part No.  | Part Name & Description | Pcs | Remarks     | Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|---------|-----------|-------------------------|-----|-------------|----------|--------------|---------------------------|-----|---------|
|         | VER840950 | P.C. BOARD W/COMPONENT  |     | FOR AU-63-P | C339     | ECEA1HP2R22  | E. CAPACITOR 50V 0.22U    | 1   |         |
|         |           | W6 AUDIO                |     | AU-62-P     | C340, 41 | ECEA1HP2R68  | E. CAPACITOR 50V 0.98U    | 2   |         |
|         |           |                         |     |             | C342     | ECEA1HP2R22  | E. CAPACITOR 50V 0.22U    | 1   |         |
|         |           |                         |     |             | C343     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U   | 1   |         |
|         |           |                         |     |             | C344     | ECEA1CP2100  | E. CAPACITOR 16V 10U      | 1   |         |
|         |           |                         |     |             | C345     | ECQF1H472FZ  | P. CAPACITOR 50V 4700P    | 1   |         |
|         |           |                         |     |             | C347     | ECQF1H103F2  | P. CAPACITOR 50V 0.01U    | 1   |         |
|         |           |                         |     |             | C348, 49 | ECQM1H394JF  | P. CAPACITOR 50V 0.39U    | 2   |         |
|         |           |                         |     |             | C501     | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
|         |           |                         |     |             | C503     | ECEA1CU220   | E. CAPACITOR 16V 22U      | 1   |         |
|         |           |                         |     |             | C553     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
|         |           |                         |     |             | C701     | ECEA1CB2470  | E. CAPACITOR 16V 47U      | 1   |         |
|         |           |                         |     |             | C702     | ECUM1H182KBN | C. CAPACITOR CH 50V 1800P | 1   |         |
|         |           |                         |     |             | C703     | ECUM1H821JCN | C. CAPACITOR CH 50V 820P  | 1   |         |
|         |           |                         |     |             | C712     | ECEA1HP24R7  | E. CAPACITOR 50V 4.7U     | 1   |         |
|         |           |                         |     |             | C713     | ECEA1HP23R3  | E. CAPACITOR 50V 3.3U     | 1   |         |
|         |           |                         |     |             | C714     | ECQM1H682JF  | P. CAPACITOR 50V 6800P    | 1   |         |
|         |           |                         |     |             | C715     | ECQM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         |
|         |           |                         |     |             | C716     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
|         |           |                         |     |             | C717     | ECEA1CP2100  | E. CAPACITOR 16V 10U      | 1   |         |
|         |           |                         |     |             | C719     | ECEA1HP24R7  | E. CAPACITOR 50V 4.7U     | 1   |         |
|         |           |                         |     |             | C720     | ECEA1CP2470  | E. CAPACITOR 16V 47U      | 1   |         |
|         |           |                         |     |             | C721     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         |
|         |           |                         |     |             | C722     | ECQM1H392JF  | P. CAPACITOR 50V 3900P    | 1   |         |
|         |           |                         |     |             | C723     | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P | 1   |         |
|         |           |                         |     |             | C724, 25 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2   |         |
|         |           |                         |     |             | C726     | ECEA1CB2100  | E. CAPACITOR 16V 10U      | 1   |         |
|         |           |                         |     |             | C727     | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 1   |         |
|         |           |                         |     |             | C728     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|         |           |                         |     |             | C729, 30 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
|         |           |                         |     |             | C732     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
|         |           |                         |     |             | C733     | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P | 1   |         |
|         |           |                         |     |             | C801     | ECEA1CB2470  | E. CAPACITOR 16V 47U      | 1   |         |
|         |           |                         |     |             | C802     | ECUM1H182KBN | C. CAPACITOR CH 50V 1800P | 1   |         |
|         |           |                         |     |             | C803     | ECUM1H821JCN | C. CAPACITOR CH 50V 820P  | 1   |         |
|         |           |                         |     |             | C804, 05 | ECF1H222KB   | C. CAPACITOR 50V 2200P    | 2   |         |
|         |           |                         |     |             | C812     | ECEA1HP24R7  | E. CAPACITOR 50V 4.7U     | 1   |         |
|         |           |                         |     |             | C813     | ECEA1HP23R3  | E. CAPACITOR 50V 3.3U     | 1   |         |
|         |           |                         |     |             | C814     | ECQM1H682JF  | P. CAPACITOR 50V 6800P    | 1   |         |
|         |           |                         |     |             | C815     | ECQM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         |
|         |           |                         |     |             | C816     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
|         |           |                         |     |             | C817     | ECEA1CP2100  | E. CAPACITOR 16V 10U      | 1   |         |
|         |           |                         |     |             | C819     | ECEA1HP24R7  | E. CAPACITOR 50V 4.7U     | 1   |         |
|         |           |                         |     |             | C820     | ECEA1CP2470  | E. CAPACITOR 16V 47U      | 1   |         |
|         |           |                         |     |             | C821     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         |
|         |           |                         |     |             | C822     | ECQM1H392JF  | P. CAPACITOR 50V 3900P    | 1   |         |
|         |           |                         |     |             | C823     | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P | 1   |         |
|         |           |                         |     |             | C824, 25 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2   |         |
|         |           |                         |     |             | C826     | ECEA1CB2100  | E. CAPACITOR 16V 10U      | 1   |         |
|         |           |                         |     |             | C827     | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 1   |         |
|         |           |                         |     |             | C828     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|         |           |                         |     |             | C829, 30 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
|         |           |                         |     |             | C832     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
|         |           |                         |     |             | C833     | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P | 1   |         |
|         |           |                         |     |             | C903     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|         |           |                         |     |             | C904     | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 1   |         |
|         |           |                         |     |             | C905     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|         |           |                         |     |             | C906, 07 | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 2   |         |
|         |           |                         |     |             | C917     | ECEA1CP2100  | E. CAPACITOR 16V 10U      | 1   |         |
|         |           |                         |     |             | C918     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|         |           |                         |     |             | C919     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|         |           |                         |     |             | C920     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
|         |           |                         |     |             | C921, 22 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
|         |           |                         |     |             | C923     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
|         |           |                         |     |             | C924     | ECEA1HP2010  | E. CAPACITOR 50V 1U       | 1   |         |
|         |           |                         |     |             | C925     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
|         |           |                         |     |             | C926     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
|         |           |                         |     |             | C929     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
|         |           |                         |     |             | C930, 31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
|         |           |                         |     |             | C932     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
|         |           |                         |     |             | C933     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
|         |           |                         |     |             | C934, 35 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
|         |           |                         |     |             | C936     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
|         |           |                         |     |             | C937     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
|         |           |                         |     |             | C938-40  | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 3   |         |

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| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R145     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R731     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R147     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R732     | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         |
| R148, 49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R733     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R150     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R734     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R151     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R735     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R152     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R736     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R153     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R737, 38 | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R154     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R739     | VRE0034E362 | M.RESISTOR CH 1/10W 3.6K | 1   |         |
| R155     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R740     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R156     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R741, 42 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R157     | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R743     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R158     | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R744     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R159     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R745     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R160     | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R801     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R161     | VRE0034E333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R802, 03 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R162     | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R804     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R164     | VRE0034E583 | M.RESISTOR CH 1/10W 58K  | 1   |         | R805     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R165     | VRE0034E222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R806     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R166     | VRE0034E512 | M.RESISTOR CH 1/10W 5.1K | 1   |         | R807     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R167     | VRE0034E822 | M.RESISTOR CH 1/10W 8.2K | 1   |         | R809     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R168     | VRE0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         | R810     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R320     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R828, 29 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R321     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R830     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R322     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R831     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R323     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R832     | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         |
| R324     | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         | R833     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R325     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | R834     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 2   |         |
| R326     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R835     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R327     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R836     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R328     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         | R837, 38 | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R329     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R839     | VRE0034E362 | M.RESISTOR CH 1/10W 3.6K | 1   |         |
| R331     | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1   |         | R840     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R338, 39 | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 2   |         | R841, 42 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R340     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R843     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R341     | VRE0034E473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R844     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R342     | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R845     | VRE0034E303 | M.RESISTOR CH 1/10W 30K  | 1   | RR      |
| R343     | VRE0034E470 | M.RESISTOR CH 1/10W 47   | 1   |         | R914     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R344     | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R917, 18 | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R345     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R919, 20 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R347     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R921     | VRE0034E223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R348, 49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R922, 23 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R350     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R924     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R351     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R925     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R352     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R926     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R353     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R927     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R354     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R928     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R355     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R933     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R356     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R939     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R357     | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R940     | ERJ6GEYJ560 | M.RESISTOR CH 1/10W 56   | 1   |         |
| R358     | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R941     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R359     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R942     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R360     | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R943     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R361     | VRE0034E333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R944     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R362     | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R945     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R364     | VRE0034E583 | M.RESISTOR CH 1/10W 58K  | 1   |         | R946-48  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R365     | VRE0034E222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R949     | ERJ6GEYJ390 | M.RESISTOR CH 1/10W 39   | 1   |         |
| R366     | VRE0034E512 | M.RESISTOR CH 1/10W 5.1K | 1   |         | R950     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R367     | VRE0034E822 | M.RESISTOR CH 1/10W 8.2K | 1   |         | R951     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R368     | VRE0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         | R952     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R501     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R953     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R502, 03 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         | R954     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R508     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R955, 56 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R509     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R957     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R510     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R958     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R511     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R959     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R701     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R960     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R702, 03 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | R961     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R704     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R963     | ERJ6GEYJ560 | M.RESISTOR CH 1/10W 56   | 1   |         |
| R705     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |          |             |                          |     |         |
| R706     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                          |     |         |
| R707     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                          |     |         |
| R709     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | SW101    | VSS023703   | SWITCH                   | 1   |         |
| R710     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | SW301    | VSS023708   | SWITCH                   | 1   |         |
| R728, 29 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 2   |         |          |             |                          |     |         |
| R730     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |          |             |                          |     |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.





| Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks       | Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks |
|----------|--------------|----------------------------|-----|---------------|----------|--------------|----------------------------|-----|---------|
|          | VEP8409SD    | P.C. BOARD W/COMPONENT     |     | FOR AU-65-E,B | C214     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|          |              | W5 AUDIO                   |     |               | C215     | ECUM1E153KBN | C. CAPACITOR CH 25V 0.015U | 1   |         |
|          | VEP80635A    | P.C. BOARD W/COMPONENT     |     |               | C216     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
|          |              | W5S TC TRAP SUB            |     |               | C217     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
|          |              |                            |     |               | C218     | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P  | 1   |         |
|          |              |                            |     |               | C219     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
|          |              |                            |     |               | C220     | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P  | 1   |         |
|          |              |                            |     |               | C301     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |         |
|          |              |                            |     |               | C302     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
|          |              |                            |     |               | C303     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         |
|          |              |                            |     |               | C304     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
|          |              |                            |     |               | C305     | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 1   |         |
|          |              |                            |     |               | C306     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         |
|          |              |                            |     |               | C307     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |         |
|          |              |                            |     |               | C308     | ECEA1CP2101  | E. CAPACITOR 16V 100U      | 1   |         |
|          |              |                            |     |               | C309     | ECEA1CB2470  | E. CAPACITOR 16V 47U       | 1   |         |
|          |              |                            |     |               | C310     | ECEA1CP2101  | E. CAPACITOR 16V 100U      | 1   |         |
|          |              |                            |     |               | C311     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |         |
|          |              |                            |     |               | C312, 13 | ECEA1CP2101  | E. CAPACITOR 16V 100U      | 2   |         |
|          |              |                            |     |               | C314     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
|          |              |                            |     |               | C315     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |         |
|          |              |                            |     |               | C316, 17 | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 2   |         |
|          |              |                            |     |               | C318     | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 1   |         |
|          |              |                            |     |               | C320     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         |
|          |              |                            |     |               | C321     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |         |
|          |              |                            |     |               | C322     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P   | 1   |         |
|          |              |                            |     |               | C324     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         |
|          |              |                            |     |               | C325     | ECEA1CP2471  | E. CAPACITOR 16V 47U       | 1   |         |
|          |              |                            |     |               | C327, 28 | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 2   |         |
|          |              |                            |     |               | C329     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |         |
|          |              |                            |     |               | C330     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P   | 1   |         |
|          |              |                            |     |               | C331, 32 | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 2   |         |
|          |              |                            |     |               | C333     | ECUM1H562KBN | C. CAPACITOR CH 50V 5600P  | 1   |         |
|          |              |                            |     |               | C334, 35 | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 2   |         |
|          |              |                            |     |               | C336     | ECQP1H472F2  | P. CAPACITOR 50V 4700P     | 1   |         |
|          |              |                            |     |               | C337     | ECEA1CP2100  | E. CAPACITOR 16V 10U       | 1   |         |
|          |              |                            |     |               | C338     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |         |
|          |              |                            |     |               | C339     | ECEA1HP2R22  | E. CAPACITOR 50V 0.22U     | 1   |         |
|          |              |                            |     |               | C340, 41 | ECEA1HP2R68  | E. CAPACITOR 50V 0.98U     | 2   |         |
|          |              |                            |     |               | C342     | ECEA1HP2R22  | E. CAPACITOR 50V 0.22U     | 1   |         |
|          |              |                            |     |               | C343     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |         |
|          |              |                            |     |               | C344     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
|          |              |                            |     |               | C345     | ECQP1H472F2  | P. CAPACITOR 50V 4700P     | 1   |         |
|          |              |                            |     |               | C346     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
|          |              |                            |     |               | C347     | ECQP1H103F2  | P. CAPACITOR 50V 0.01U     | 1   |         |
|          |              |                            |     |               | C348, 49 | ECQM1H394JF  | P. CAPACITOR 50V 0.39U     | 2   |         |
|          |              |                            |     |               | C401     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P   | 1   |         |
|          |              |                            |     |               | C402     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
|          |              |                            |     |               | C403     | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P  | 1   |         |
|          |              |                            |     |               | C404, 05 | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 2   |         |
|          |              |                            |     |               | C406     | ECEA1CB2470  | E. CAPACITOR 16V 47U       | 1   |         |
|          |              |                            |     |               | C407     | ECUM1H682KBN | C. CAPACITOR CH 50V 6800P  | 1   |         |
|          |              |                            |     |               | C408     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |         |
|          |              |                            |     |               | C409     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
|          |              |                            |     |               | C410     | ECQM1H394JF  | P. CAPACITOR 50V 0.39U     | 1   |         |
|          |              |                            |     |               | C411     | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P  | 1   |         |
|          |              |                            |     |               | C412     | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P  | 1   |         |
|          |              |                            |     |               | C413     | ECUM1H682KBN | C. CAPACITOR CH 50V 6800P  | 1   |         |
|          |              |                            |     |               | C414     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|          |              |                            |     |               | C415     | ECUM1E153KBN | C. CAPACITOR CH 25V 0.015U | 1   |         |
|          |              |                            |     |               | C416     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |         |
|          |              |                            |     |               | C417     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
|          |              |                            |     |               | C418     | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P  | 1   |         |
|          |              |                            |     |               | C419     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
|          |              |                            |     |               | C420     | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P  | 1   |         |
|          |              |                            |     |               | C501     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
|          |              |                            |     |               | C503     | ECEA1CU220   | E. CAPACITOR 16V 22U       | 1   |         |
|          |              |                            |     |               | C551     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |         |
|          |              |                            |     |               | C553     | ECEA1AU101   | E. CAPACITOR 10V 100U      | 1   |         |
|          |              |                            |     |               | C554, 55 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 2   |         |
|          |              |                            |     |               | C556     | ECEA1VU101   | E. CAPACITOR 35V 100U      | 1   |         |
|          |              |                            |     |               | C557     | ECEA1EU101   | E. CAPACITOR 25V 100U      | 1   |         |
|          |              |                            |     |               | C558     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|          |              |                            |     |               | C559, 60 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|          |              |                            |     |               | C561     | ECEA1EU100   | E. CAPACITOR 25V 10U       | 1   |         |
| C1, C2   | ECEA1CU470   | E. CAPACITOR 16V 47U       | 2   |               |          |              |                            |     |         |
| C3       | ECEA1CU101   | E. CAPACITOR 6.3V 100U     | 1   |               |          |              |                            |     |         |
| C4       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |               |          |              |                            |     |         |
| C5       | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |               |          |              |                            |     |         |
| C6       | ECUM1H473KBN | C. CAPACITOR CH 25V 0.047U | 1   |               |          |              |                            |     |         |
| C7       | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P  | 1   |               |          |              |                            |     |         |
| C8       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |               |          |              |                            |     |         |
| C9       | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |               |          |              |                            |     |         |
| C10      | ECEA1CN100S  | E. CAPACITOR 16V 10U       | 1   |               |          |              |                            |     |         |
| C11      | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P  | 1   |               |          |              |                            |     |         |
| C12      | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |               |          |              |                            |     |         |
| C13, 14  | ECEA1CU470   | E. CAPACITOR 16V 47U       | 2   |               |          |              |                            |     |         |
| C17      | ECUM1H822KBN | C. CAPACITOR CH 50V 8200P  | 1   |               |          |              |                            |     |         |
| C101     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |               |          |              |                            |     |         |
| C102     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |               |          |              |                            |     |         |
| C103     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |               |          |              |                            |     |         |
| C104     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |               |          |              |                            |     |         |
| C105     | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 1   |               |          |              |                            |     |         |
| C106     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |               |          |              |                            |     |         |
| C107     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |               |          |              |                            |     |         |
| C108     | ECEA1CP2101  | E. CAPACITOR 16V 100U      | 1   |               |          |              |                            |     |         |
| C109     | ECEA1CB2470  | E. CAPACITOR 16V 47U       | 1   |               |          |              |                            |     |         |
| C110     | ECEA1CP2101  | E. CAPACITOR 16V 100U      | 1   |               |          |              |                            |     |         |
| C111     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |               |          |              |                            |     |         |
| C112, 13 | ECEA1CP2101  | E. CAPACITOR 16V 100U      | 2   |               |          |              |                            |     |         |
| C114     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |               |          |              |                            |     |         |
| C115     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |               |          |              |                            |     |         |
| C116, 17 | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 2   |               |          |              |                            |     |         |
| C118     | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 1   |               |          |              |                            |     |         |
| C120     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |               |          |              |                            |     |         |
| C121     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |               |          |              |                            |     |         |
| C122     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P   | 1   |               |          |              |                            |     |         |
| C124     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |               |          |              |                            |     |         |
| C125     | ECEA1CP2471  | E. CAPACITOR 16V 47U       | 1   |               |          |              |                            |     |         |
| C127, 28 | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 2   |               |          |              |                            |     |         |
| C129     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |               |          |              |                            |     |         |
| C130     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P   | 1   |               |          |              |                            |     |         |
| C131, 32 | ECEA1CP2470  | E. CAPACITOR 16V 47U       | 2   |               |          |              |                            |     |         |
| C133     | ECUM1H562KBN | C. CAPACITOR CH 50V 5600P  | 1   |               |          |              |                            |     |         |
| C134, 35 | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 2   |               |          |              |                            |     |         |
| C136     | ECQP1H472F2  | P. CAPACITOR 50V 4700P     | 1   |               |          |              |                            |     |         |
| C137     | ECEA1CP2100  | E. CAPACITOR 16V 10U       | 1   |               |          |              |                            |     |         |
| C138     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |               |          |              |                            |     |         |
| C139     | ECEA1HP2R22  | E. CAPACITOR 50V 0.22U     | 1   |               |          |              |                            |     |         |
| C140, 41 | ECEA1HP2R68  | E. CAPACITOR 50V 0.98U     | 2   |               |          |              |                            |     |         |
| C142     | ECEA1HP2R22  | E. CAPACITOR 50V 0.22U     | 1   |               |          |              |                            |     |         |
| C143     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |               |          |              |                            |     |         |
| C144     | ECEA1CP2100  | E. CAPACITOR 16V 10U       | 1   |               |          |              |                            |     |         |
| C145     | ECQP1H472F2  | P. CAPACITOR 50V 4700P     | 1   |               |          |              |                            |     |         |
| C146     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |               |          |              |                            |     |         |
| C147     | ECQP1H103F2  | P. CAPACITOR 50V 0.01U     | 1   |               |          |              |                            |     |         |
| C148, 49 | ECQM1H394JF  | P. CAPACITOR 50V 0.39U     | 2   |               |          |              |                            |     |         |
| C201     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P   | 1   |               |          |              |                            |     |         |
| C202     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |               |          |              |                            |     |         |
| C203     | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P  | 1   |               |          |              |                            |     |         |
| C204, 05 | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 2   |               |          |              |                            |     |         |
| C206     | ECEA1CB2470  | E. CAPACITOR 16V 47U       | 1   |               |          |              |                            |     |         |
| C207     | ECUM1H682KBN | C. CAPACITOR CH 50V 6800P  | 1   |               |          |              |                            |     |         |
| C208     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |               |          |              |                            |     |         |
| C209     | ECEA1CB2100  | E. CAPACITOR 16V 10U       | 1   |               |          |              |                            |     |         |
| C210     | ECQM1H394JF  | P. CAPACITOR 50V 0.39U     | 1   |               |          |              |                            |     |         |
| C211     | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P  | 1   |               |          |              |                            |     |         |
| C212     | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P  | 1   |               |          |              |                            |     |         |
| C213     | ECUM1H682KBN | C. CAPACITOR CH 50V 6800P  | 1   |               |          |              |                            |     |         |

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| Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks | Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|----------|--------------|---------------------------|-----|---------|
| C562     | ECDD2H181J   | C. CAPACITOR 500V 180P    | 1   |         | C824, 25 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2   |         |
| C563     | ECDD2H271J   | C. CAPACITOR 500V 270P    | 1   |         | C826     | ECEA1CB2100  | E. CAPACITOR 16V 100U     | 1   |         |
| C564     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         | C827     | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 1   |         |
| C565, 66 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C828     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C567     | ECEA1EU100   | E. CAPACITOR 25V 100U     | 1   |         | C829, 30 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C568     | ECDD2H181J   | C. CAPACITOR 500V 180P    | 1   |         | C831     | ECEA1HP24R7  | E. CAPACITOR 50V 4.7U     | 1   |         |
| C569     | ECDD2H271J   | C. CAPACITOR 500V 270P    | 1   |         | C832     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
| C570     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         | C833     | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P | 1   |         |
| C571-73  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         | C902     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C574     | ECEA1EU100   | E. CAPACITOR 25V 100U     | 1   |         | C903     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C575     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         | C904     | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 1   |         |
| C576     | VCF2JAB182JE | P. CAPACITOR V            | 1   |         | C905     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C577     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         | C906, 07 | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 2   |         |
| C578-80  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         | C908     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C581     | ECEA1EU100   | E. CAPACITOR 25V 100U     | 1   |         | C909     | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 1   |         |
| C582     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         | C910-12  | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 3   |         |
| C583     | VCF2JAB182JE | P. CAPACITOR V            | 1   |         | C913-15  | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 3   |         |
| C584     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         | C916     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C585, 86 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C917     | ECEA1CP2100  | E. CAPACITOR 16V 100U     | 1   |         |
| C587     | ECEA1EU100   | E. CAPACITOR 25V 100U     | 1   |         | C918     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C588     | VCF2JAB102JE | P. CAPACITOR V            | 1   |         | C920     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C589     | ECDD2H680K   | C. CAPACITOR 500V 68P     | 1   |         | C921, 22 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C590     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         | C923     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C591     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         | C924     | ECEA1HP2010  | E. CAPACITOR 50V 1U       | 1   |         |
| C592-94  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         | C925     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
| C595     | ECEA1EU100   | E. CAPACITOR 25V 100U     | 1   |         | C926     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C596     | VCF2JAB222JE | P. CAPACITOR V            | 1   |         | C929     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C597     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C930, 31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C598, 99 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C932     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
| C600     | ECEA1EU100   | E. CAPACITOR 25V 100U     | 1   |         | C933     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C601     | VCF2JAB222JE | P. CAPACITOR V            | 1   |         | C934, 35 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C602     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C936     | ECEA1CU100   | E. CAPACITOR 16V 100U     | 1   |         |
| C603, 04 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C937     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C605     | ECEA1EU100   | E. CAPACITOR 25V 100U     | 1   |         | C938-40  | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 3   |         |
| C606     | VCF2JAB222JE | P. CAPACITOR V            | 1   |         | C941     | ECEA1HP23R3  | E. CAPACITOR 50V 3.3U     | 1   |         |
| C607, 08 | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 2   |         | C942     | ECEA1CP2470  | E. CAPACITOR 16V 47U      | 1   |         |
| C609     | ECEA1EU3R3   | E. CAPACITOR 50V 3.3U     | 1   |         | C944     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C610-12  | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 3   |         | C945, 46 | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 2   |         |
| C701     | ECEA1CB2470  | E. CAPACITOR 16V 47U      | 1   |         | C947, 48 | ECEA1HP2010  | E. CAPACITOR 50V 1U       | 2   |         |
| C702     | ECUM1H182KBN | C. CAPACITOR CH 50V 1800P | 1   |         | C949     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C703     | ECUM1H821JCN | C. CAPACITOR CH 50V 820P  | 1   |         | C950     | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 1   |         |
| C712     | ECEA1HP24R7  | E. CAPACITOR 50V 4.7U     | 1   |         |          |              |                           |     |         |
| C713     | ECEA1HP23R3  | E. CAPACITOR 50V 3.3U     | 1   |         |          |              |                           |     |         |
| C714     | ECQM1H682JF  | P. CAPACITOR 50V 6800P    | 1   |         |          |              |                           |     |         |
| C715     | ECQM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         |          |              |                           |     |         |
| C716     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         | D1       | MA153        | DIODE                     | 1   |         |
| C717     | ECEA1CP2100  | E. CAPACITOR 16V 100U     | 1   |         | D2       | MA151K       | DIODE                     | 1   |         |
| C719     | ECEA1HP24R7  | E. CAPACITOR 50V 4.7U     | 1   |         | D3, D4   | MA3024       | DIODE                     | 1   |         |
| C720     | ECEA1CP2470  | E. CAPACITOR 16V 47U      | 1   |         | D101     | MA151K       | DIODE                     | 1   |         |
| C721     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         | D301     | MA151K       | DIODE                     | 1   |         |
| C722     | ECQM1H332JF  | P. CAPACITOR 50V 3300P    | 1   |         | D501     | MA153        | DIODE                     | 1   |         |
| C723     | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P | 1   |         | D502     | MA151MA      | DIODE                     | 1   |         |
| C724, 25 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2   |         | D552-57  | MA153        | DIODE                     | 6   |         |
| C726     | ECEA1CB2100  | E. CAPACITOR 16V 100U     | 1   |         | D558-60  | MA3100       | DIODE                     | 3   |         |
| C727     | ECEA1CP2101  | E. CAPACITOR 16V 100U     | 1   |         | D561-64  | MA153        | DIODE                     | 4   |         |
| C728     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | D565, 66 | MA151K       | DIODE                     | 2   |         |
| C729, 30 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | D567, 68 | MA165        | DIODE                     | 2   |         |
| C731     | ECEA1HP24R7  | E. CAPACITOR 50V 4.7U     | 1   |         | D569     | MA151K       | DIODE                     | 1   |         |
| C732     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         | D570-71  | MA165        | DIODE                     | 2   |         |
| C733     | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P | 1   |         | D901     | MA151MK      | DIODE                     | 1   |         |
| C801     | ECEA1CB2470  | E. CAPACITOR 16V 47U      | 1   |         | D902-04  | MA151K       | DIODE                     | 3   |         |
| C802     | ECUM1H182KBN | C. CAPACITOR CH 50V 1800P | 1   |         | D905     | MA153        | DIODE                     | 1   |         |
| C803     | ECUM1H821JCN | C. CAPACITOR CH 50V 820P  | 1   |         |          |              |                           |     |         |
| C804, 05 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 2   |         |          |              |                           |     |         |
| C812     | ECEA1HP24R7  | E. CAPACITOR 50V 4.7U     | 1   |         |          |              |                           |     |         |
| C813     | ECEA1HP23R3  | E. CAPACITOR 50V 3.3U     | 1   |         | FL1      | VLQ0142      | COIL                      | 1   |         |
| C814     | ECQM1H682JF  | P. CAPACITOR 50V 6800P    | 1   |         | FL101    | EIR7QH007Q   | FILTER                    | 1   |         |
| C815     | ECQM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         | FL102    | VLF0829      | FILTER                    | 1   |         |
| C816     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         | FL103    | ELM7Q306A    | COIL                      | 1   |         |
| C817     | ECEA1CP2100  | E. CAPACITOR 16V 100U     | 1   |         | FL201    | VLQ0190      | COIL 4.7MH                | 1   |         |
| C819     | ECEA1HP24R7  | E. CAPACITOR 50V 4.7U     | 1   |         | FL202    | VLQ0402      | COIL                      | 1   |         |
| C820     | ECEA1CP2470  | E. CAPACITOR 16V 47U      | 1   |         | FL301    | EIR7QH007Q   | FILTER                    | 1   |         |
| C821     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         | FL302    | VLF0829      | FILTER                    | 1   |         |
| C822     | ECQM1H332JF  | P. CAPACITOR 50V 3300P    | 1   |         | FL303    | ELM7Q306A    | COIL                      | 1   |         |
| C823     | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P | 1   |         | FL401    | VLQ0190      | COIL 4.7MH                | 1   |         |
|          |              |                           |     |         | FL402    | VLQ0402      | COIL                      | 1   |         |

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| Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks | Ref.No. | Part No.  | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|---------|-----------|-------------------------|-----|---------|
| FL701    | VLFD427      | FILTER                  | 1   |         | Q12     | 2SB710    | TRANSISTOR              | 1   |         |
| FL801    | VLFD427      | FILTER                  | 1   |         | Q14     | UN2210    | TRANSISTOR-RESISTOR     | 1   |         |
| FL901    | ELB4L053     | FILTER                  | 1   |         | Q101    | UN2113    | TRANSISTOR-RESISTOR     | 1   |         |
| FL902    | ELB4M043     | FILTER                  | 1   |         | Q102    | UN2213    | TRANSISTOR-RESISTOR     | 1   |         |
|          |              |                         |     |         | Q103-05 | 2SD601    | TRANSISTOR CHIP         | 3   | (Q,R)   |
|          |              |                         |     |         | Q106    | UN2213    | TRANSISTOR-RESISTOR     | 1   |         |
|          |              |                         |     |         | Q107    | 2SD1328   | TRANSISTOR CHIP         | 1   | (Q,R)   |
|          |              |                         |     |         | Q108    | UN2113    | TRANSISTOR-RESISTOR     | 1   |         |
| IC1-C3   | MC14053BF    | IC                      | 3   | (R)     | Q109,10 | 2SD601    | TRANSISTOR CHIP         | 2   | (Q,R)   |
| IC4      | NJM4558M     | IC                      | 1   |         | Q111,12 | 2SD1011   | TRANSISTOR              | 2   |         |
| IC5-C5   | RC082BN      | IC                      | 2   |         | Q113    | 2SA1018-R | TRANSISTOR              | 1   | (R)     |
| IC101    | AN6558S      | IC                      | 1   |         | Q114    | 2SK146    | TRANSISTOR              | 1   | (B,L)   |
| IC102    | RC4556MB     | IC                      | 1   |         | Q115    | 2SD601    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC103    | MC14053BF    | IC                      | 1   | (R)     | Q116    | 2SB709    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC104    | NJM4558M     | IC                      | 1   |         | Q117    | 2SD601    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC105    | TEA0666T     | IC                      | 1   |         | Q118-20 | UN2213    | TRANSISTOR-RESISTOR     | 3   |         |
| IC106    | AN78N09      | IC                      | 1   |         | Q122    | UN2213    | TRANSISTOR-RESISTOR     | 1   |         |
| IC107    | AN79N09      | IC                      | 1   |         | Q201    | 2SD601    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC108    | NJM4558M     | IC                      | 1   |         | Q202    | 2SB709    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC201-03 | NJM4558M     | IC                      | 3   |         | Q203    | 2SD601    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC301    | AN6558S      | IC                      | 1   |         | Q204    | 2SB709    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC302    | RC4556MB     | IC                      | 1   |         | Q205    | 2SD1328   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC303    | MC14053BF    | IC                      | 1   | (R)     | Q301    | UN2113    | TRANSISTOR-RESISTOR     | 1   |         |
| IC304    | NJM4558M     | IC                      | 1   |         | Q302    | UN2213    | TRANSISTOR-RESISTOR     | 1   |         |
| IC305    | TEA0666T     | IC                      | 1   |         | Q303-05 | 2SD601    | TRANSISTOR CHIP         | 3   | (Q,R)   |
| IC306    | AN78N09      | IC                      | 1   |         | Q306    | UN2213    | TRANSISTOR-RESISTOR     | 1   |         |
| IC307    | AN79N09      | IC                      | 1   |         | Q307    | 2SD1328   | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC308    | NJM4558M     | IC                      | 1   |         | Q308    | UN2113    | TRANSISTOR-RESISTOR     | 1   |         |
| IC401-03 | NJM4558M     | IC                      | 3   |         | Q309,10 | 2SD601    | TRANSISTOR CHIP         | 2   | (Q,R)   |
| IC552    | MB620412PF   | IC                      | 1   |         | Q311,12 | 2SD1011   | TRANSISTOR              | 2   |         |
| IC553    | AN78L20      | IC                      | 1   |         | Q313    | 2SA1018-R | TRANSISTOR              | 1   | (R)     |
| IC554-56 | UN2904M      | IC                      | 3   |         | Q314    | 2SK146    | TRANSISTOR              | 1   | (B,L)   |
| IC701    | NJM4558M     | IC                      | 1   |         | Q315    | 2SD601    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC703    | NJM4558M     | IC                      | 1   |         | Q316    | 2SB709    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC801    | NJM4558M     | IC                      | 1   |         | Q317    | 2SD601    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC802    | MC14053BF    | IC                      | 1   | (R)     | Q318-20 | UN2213    | TRANSISTOR-RESISTOR     | 3   |         |
| IC803,04 | NJM4558M     | IC                      | 2   |         | Q322    | UN2213    | TRANSISTOR-RESISTOR     | 1   |         |
| IC805    | BA7700K1     | IC                      | 1   |         | Q401    | 2SD601    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC901    | AN78L12      | IC                      | 1   |         | Q402    | 2SB709    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC902    | AN78L05      | IC                      | 1   |         | Q403    | 2SD601    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC903    | AN79L09      | IC                      | 1   |         | Q404    | 2SB709    | TRANSISTOR CHIP         | 1   | (Q,R)   |
| IC904    | AN78L09      | IC                      | 1   |         | Q405    | 2SD1328   | TRANSISTOR CHIP         | 1   | (Q,R)   |
|          |              |                         |     |         | Q501    | 2SB709    | TRANSISTOR CHIP         | 1   | (Q,R)   |
|          |              |                         |     |         | Q502    | UN2113    | TRANSISTOR-RESISTOR     | 1   |         |
| L1       | R1R700010B   | IF TRANSFORMER          | 1   |         | Q551-62 | UN2213    | TRANSISTOR-RESISTOR     | 12  |         |
| L101,02  | VLQEL05F101K | COIL                    | 2   | 100UH   | Q563,64 | UN2113    | TRANSISTOR-RESISTOR     | 2   |         |
| L301,02  | VLQEL05F101K | COIL                    | 2   | 100UH   | Q565-68 | 2SC2295   | TRANSISTOR CHIP         | 4   | (B,C)   |
| L551     | VLQEL05S2R2K | COIL                    | 1   | 2.2UH   | Q571    | 2SC2497   | TRANSISTOR              | 1   |         |
| L552     | VLQEL05S471K | COIL                    | 1   | 470UH   | Q572    | 2SB710    | TRANSISTOR              | 1   |         |
| L553,54  | VLQEL05S470J | COIL                    | 2   | 47UH    | Q573,74 | 2SD1994A  | TRANSISTOR              | 2   | (Q,R)   |
| L901     | VLQEL05S470J | COIL                    | 1   | 47UH    | Q575    | 2SC2497   | TRANSISTOR              | 1   |         |
| L902     | VLQEL05S221J | COIL                    | 1   | 220UH   | Q576    | 2SB710    | TRANSISTOR              | 1   |         |
| L903     | VLQEL05F101K | COIL                    | 1   | 100UH   | Q577,78 | 2SD1994A  | TRANSISTOR              | 2   | (Q,R)   |
| L904     | VLQEL05S820J | COIL                    | 1   | 82UH    | Q579    | 2SD1992A  | TRANSISTOR              | 1   |         |
| L905     | VLQEL05S331J | COIL                    | 1   | 330UH   | Q580    | 2SB710    | TRANSISTOR              | 1   |         |
| L906,07  | VLQEL05F101K | COIL                    | 2   | 100UH   | Q581,82 | 2SD1994A  | TRANSISTOR              | 2   | (Q,R)   |
| L909     | VLQEL05S271J | COIL                    | 1   | 270UH   | Q583    | 2SB710    | TRANSISTOR              | 1   |         |
| L910-13  | VLQEL05F101K | COIL                    | 4   | 100UH   | Q584,85 | 2SD1328   | TRANSISTOR CHIP         | 2   | (Q,R)   |
|          |              |                         |     |         | Q586    | 2SD1992A  | TRANSISTOR              | 1   |         |
|          |              |                         |     |         | Q587    | 2SB710    | TRANSISTOR              | 1   |         |
|          |              |                         |     |         | Q588,89 | 2SD1994A  | TRANSISTOR              | 2   | (Q,R)   |
| P101     | VJP1232R     | CONNECTOR(MALE)         | 5P  | 1       | Q590    | 2SB710    | TRANSISTOR              | 1   |         |
| P301     | VJP1232G     | CONNECTOR(MALE)         | 1   |         | Q591,92 | 2SD1328   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| P551     | VJP1239T     | CONNECTOR(MALE)         | 12P | 1       | Q593    | 2SC2497   | TRANSISTOR              | 1   |         |
| P553     | VJP1230T     | CONNECTOR(MALE)         | 3P  | 1       | Q594    | 2SB710    | TRANSISTOR              | 1   |         |
|          |              |                         |     |         | Q595,96 | 2SD1994A  | TRANSISTOR              | 2   | (Q,R)   |
|          |              |                         |     |         | Q597    | 2SD1992A  | TRANSISTOR              | 1   |         |
|          |              |                         |     |         | Q598    | 2SB710    | TRANSISTOR              | 1   |         |
| Q1       | 2SD602       | TRANSISTOR              | 1   | (Q,R)   | Q599,00 | 2SD1994A  | TRANSISTOR              | 2   | (Q,R)   |
| Q2       | UN2113       | TRANSISTOR-RESISTOR     | 1   |         | Q601    | 2SB710    | TRANSISTOR              | 1   |         |
| Q3       | 2SA1018-R    | TRANSISTOR              | 1   | (R)     | Q602,03 | 2SD1328   | TRANSISTOR CHIP         | 2   | (Q,R)   |
| Q4,Q5    | 2SC3478A     | TRANSISTOR              | 2   |         | Q604    | UN2213    | TRANSISTOR-RESISTOR     | 1   |         |
| Q6       | 2SD602       | TRANSISTOR              | 1   | (Q,R)   | Q605    | 2SB710    | TRANSISTOR              | 1   |         |
| Q7       | 2SD1328      | TRANSISTOR CHIP         | 1   | (Q,R)   | Q606    | 2SD1992A  | TRANSISTOR              | 1   |         |
| Q11      | UN2211       | TRANSISTOR-RESISTOR     | 1   |         | Q607    | 2SB710    | TRANSISTOR              | 1   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| R304    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R421    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R306    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R422    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R307    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R423    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R308    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R424,25 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R309    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R426    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R310    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R427    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R311    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R428    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R312    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R429    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R313    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R430    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R314    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R431    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R315    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R432    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R316    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R433    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R317    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R435    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R318-20 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 3   |         | R436    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R321    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R501    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R322    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R502,03 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R323    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R508    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R324    | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         | R509    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R325    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         | R551    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R326    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R552    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R327    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R553    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R328    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         | R554    | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R329    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R555    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R330    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R556    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R331    | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1   |         | R557    | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R333,34 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         | R558    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R335    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R559    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R336    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | R560    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R337    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R561    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R338,39 | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 2   |         | R563    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R340    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R564    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R341    | VRE0034E473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R565    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R342    | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R569    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R343    | VRE0034E470 | M.RESISTOR CH 1/10W 47   | 1   |         | R570    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R344    | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R571    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R345    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R572,73 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R346    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R574    | ERDS2TJ6R2  | C.RESISTOR 1/4W 8.2      | 1   |         |
| R347    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R575    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R348,49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R576    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R350    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R577,78 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R351    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R579    | ERDS2TJ6R2  | C.RESISTOR 1/4W 8.2      | 1   |         |
| R352    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R580    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R353    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R581    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R354    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R582    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R355    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R583    | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R356    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R584,85 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R357    | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R586,87 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R358    | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R588    | ERDS2TJ100  | C.RESISTOR 1/4W 10       | 1   |         |
| R359    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R589    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R360    | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R590,91 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R361    | VRE0034E333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R592    | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 1    | 1   |         |
| R362    | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R593    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R363    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R594    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R364    | VRE0034E683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R595    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R365    | VRE0034E222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R596    | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R366    | VRE0034E512 | M.RESISTOR CH 1/10W 5.1K | 1   |         | R597,98 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R367    | VRE0034E822 | M.RESISTOR CH 1/10W 8.2K | 1   |         | R599,00 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R368    | VRE0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         | R601    | ERDS2TJ100  | C.RESISTOR 1/4W 10       | 1   |         |
| R369    | VRE0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         | R602    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R401    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R603,04 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R402-04 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | R605    | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 1    | 1   |         |
| R405    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R606    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R406    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R607    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R407    | ERJ6GEYJ132 | M.RESISTOR CH 1/10W 1.3K | 1   |         | R608,09 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R408    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R610,11 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2   |         |
| R409    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R612    | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         |
| R410-12 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 3   |         | R613    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R413    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R614    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R414    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R615    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R415    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R616    | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R416    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R617,18 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R417    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R619,20 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R418    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R621    | ERDS2TJ6R8  | C.RESISTOR 1/4W 6.8      | 1   |         |
| R419    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R622    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R420    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R623,24 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R625    | ERJ6GEYJ180 | M.RESISTOR CH 1/10W 180K | 1   |         | R844     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R626    | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         | R845     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R627,28 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R901     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R629,30 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         | R904     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R631,32 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | R905     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R633    | ERDS2TJ6R8  | C.RESISTOR 1/4W 6.8      | 1   |         | R906     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R634    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R907     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R635,36 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R909     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R637    | ERJ6GEYJ180 | M.RESISTOR CH 1/10W 180K | 1   |         | R910     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R638    | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         | R914     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R639,40 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R917,18  | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R641,42 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         | R919,20  | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R643,44 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | R921     | VRD034E223  | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R645    | ERDS2TJ6R8  | C.RESISTOR 1/4W 6.8      | 1   |         | R922,23  | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R646    | ERJ6GEYJ180 | M.RESISTOR CH 1/10W 180K | 1   |         | R924     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R647-50 | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 4   |         | R925     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R651,52 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R926     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R655,56 | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 2   |         | R927     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R657    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R928     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R658    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         | R929     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R659    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R930-32  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R660,61 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         | R933     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R662,63 | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 2   |         | R934     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R664,65 | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 2   |         | R935     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R666    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R936     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R667    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R937-39  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R670-73 | ERDS2TJ102  | C.RESISTOR 1/4W 1K       | 4   |         | R940     | ERJ6GEYJ560 | M.RESISTOR CH 1/10W 56   | 1   |         |
| R701    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R941     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R702,03 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | R942     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R704    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R943     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R705    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R944     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R706    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R945     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R707,08 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | R946-48  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R709    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R949     | ERJ6GEYJ390 | M.RESISTOR CH 1/10W 39   | 1   |         |
| R710    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R950     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R718    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R951     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R719,20 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | R952     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R728,29 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 2   |         | R953     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R730    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R954     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R731    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         | R955,56  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R732    | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         | R957     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R733    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R958     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R734    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R959     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R735    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R960     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R736    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R961     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R737,38 | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2   |         | R962     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R739    | VRD034E362  | M.RESISTOR CH 1/10W 3.6K | 1   |         | R963     | ERJ6GEYJ560 | M.RESISTOR CH 1/10W 56   | 1   |         |
| R740    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R964     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R741,42 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R965     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R743    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          |             |                          |     |         |
| R744    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          |             |                          |     |         |
| R745    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          |             |                          |     |         |
| R801    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                          |     |         |
| R802,03 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | SW101    | VSS023703   | SWITCH                   | 1   |         |
| R804    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | SW201    | VSS023703   | SWITCH                   | 1   |         |
| R805    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | SW301    | VSS023703   | SWITCH                   | 1   |         |
| R806    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | SW401    | VSS023703   | SWITCH                   | 1   |         |
| R907,08 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |          |             |                          |     |         |
| R909    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |          |             |                          |     |         |
| R810    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |          |             |                          |     |         |
| R818    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | T551,52  | VLT0602     | TRANSFORMER              | 2   |         |
| R819,20 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | T553,54  | VLT0603     | TRANSFORMER              | 2   |         |
| R828,29 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 2   |         | T555     | VLT0304     | TRANSFORMER              | 1   |         |
| R830    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | T556-58  | VLT0603     | TRANSFORMER              | 3   |         |
| R831    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |          |             |                          |     |         |
| R832    | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         |          |             |                          |     |         |
| R833    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP1      | VJR0646     | TEST POINT               | 1   |         |
| R834    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | TP101,02 | VJR0646     | TEST POINT               | 1   |         |
| R835    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | TP104,05 | VJR0646     | TEST POINT               | 2   |         |
| R836    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | TP201    | VJR0646     | TEST POINT               | 1   |         |
| R837,38 | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2   |         | TP301,02 | VJR0646     | TEST POINT               | 2   |         |
| R839    | VRD034E362  | M.RESISTOR CH 1/10W 3.6K | 1   |         | TP304,05 | VJR0646     | TEST POINT               | 2   |         |
| R840    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | TP401    | VJR0646     | TEST POINT               | 1   |         |
| R841,42 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | TP501    | VJR0646     | TEST POINT               | 1   |         |
| R843    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | TP551-58 | VJR0646     | TEST POINT               | 8   |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.









| Ref. No. | Part No.    | Part Name & Description   | Pcs | Remarks | Ref. No. | Part No.    | Part Name & Description   | Pcs | Remarks |
|----------|-------------|---------------------------|-----|---------|----------|-------------|---------------------------|-----|---------|
| R142     | VRE0034E272 | M. RESISTOR CH 1/10W 2.7K | 1   |         | R707     | ERJ6GEYJ104 | M. RESISTOR CH 1/10W 100K | 1   |         |
| R143     | VRE0034E470 | M. RESISTOR CH 1/10W 47   | 1   |         | R709     | ERJ6GEYJ472 | M. RESISTOR CH 1/10W 4.7K | 1   |         |
| R144     | VRE0034E104 | M. RESISTOR CH 1/10W 100K | 1   |         | R710     | ERJ6GEYJ682 | M. RESISTOR CH 1/10W 6.8K | 1   |         |
| R145     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         | R728, 29 | ERJ6GEYJ821 | M. RESISTOR CH 1/10W 820  | 2   |         |
| R147     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         | R730     | ERJ6GEYJ681 | M. RESISTOR CH 1/10W 680  | 1   |         |
| R148, 49 | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 2   |         | R731     | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 1   |         |
| R150     | ERJ6GEYJ223 | M. RESISTOR CH 1/10W 22K  | 1   |         | R732     | ERJ6GEYJ112 | M. RESISTOR CH 1/10W 1.1K | 1   |         |
| R151     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         | R733     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         |
| R152     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         | R734     | ERJ6GEYJ183 | M. RESISTOR CH 1/10W 18K  | 1   |         |
| R153     | ERJ6GEYJ221 | M. RESISTOR CH 1/10W 220  | 1   |         | R735     | ERJ6GEYJ562 | M. RESISTOR CH 1/10W 5.6K | 1   |         |
| R154     | ERJ6GEYJ101 | M. RESISTOR CH 1/10W 100  | 1   |         | R736     | ERJ6GEYJ104 | M. RESISTOR CH 1/10W 100K | 1   |         |
| R155     | ERJ6GEYJ272 | M. RESISTOR CH 1/10W 2.7K | 1   |         | R737, 38 | ERJ6GEYJ122 | M. RESISTOR CH 1/10W 1.2K | 1   |         |
| R156     | ERJ6GEYJ332 | M. RESISTOR CH 1/10W 3.3K | 1   |         | R739     | VRE0034E362 | M. RESISTOR CH 1/10W 3.6K | 1   |         |
| R157     | VRE0034E102 | M. RESISTOR CH 1/10W 1K   | 1   |         | R740     | ERJ6GEYJ122 | M. RESISTOR CH 1/10W 1.2K | 1   |         |
| R158     | VRE0034E332 | M. RESISTOR CH 1/10W 3.3K | 1   |         | R741, 42 | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 2   |         |
| R159     | ERJ6GEYJ221 | M. RESISTOR CH 1/10W 220  | 1   |         | R743     | ERJ6GEYJ473 | M. RESISTOR CH 1/10W 47K  | 1   |         |
| R160     | VRE0034E823 | M. RESISTOR CH 1/10W 82K  | 1   |         | R743     | ERJ6GEYJ561 | M. RESISTOR CH 1/10W 560  | 1   |         |
| R161     | VRE0034E333 | M. RESISTOR CH 1/10W 33K  | 1   |         | R744     | ERJ6GEYJ473 | M. RESISTOR CH 1/10W 47K  | 1   |         |
| R162     | VRE0034E823 | M. RESISTOR CH 1/10W 82K  | 1   |         | R744     | ERJ6GEYJ561 | M. RESISTOR CH 1/10W 560  | 1   |         |
| R164     | VRE0034E683 | M. RESISTOR CH 1/10W 68K  | 1   |         | R745     | ERJ6GEYJ473 | M. RESISTOR CH 1/10W 47K  | 1   |         |
| R165     | VRE0034E222 | M. RESISTOR CH 1/10W 2.2K | 1   |         | R801     | ERJ6GEYJ104 | M. RESISTOR CH 1/10W 100K | 1   |         |
| R166     | VRE0034E512 | M. RESISTOR CH 1/10W 5.1K | 1   |         | R802, 03 | ERJ6GEYJ332 | M. RESISTOR CH 1/10W 3.3K | 2   |         |
| R167     | VRE0034E822 | M. RESISTOR CH 1/10W 8.2K | 1   |         | R804     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         |
| R168     | VRE0034E203 | M. RESISTOR CH 1/10W 20K  | 1   |         | R805     | ERJ6GEYJ272 | M. RESISTOR CH 1/10W 2.7K | 1   |         |
| R169     | VRE0034E821 | M. RESISTOR CH 1/10W 820  | 1   |         | R806     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         |
| R320     | ERJ6GEYJ104 | M. RESISTOR CH 1/10W 100K | 1   |         | R807     | ERJ6GEYJ104 | M. RESISTOR CH 1/10W 100K | 1   |         |
| R321     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         | R809     | ERJ6GEYJ472 | M. RESISTOR CH 1/10W 4.7K | 1   |         |
| R322     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         | R810     | ERJ6GEYJ682 | M. RESISTOR CH 1/10W 6.8K | 1   |         |
| R323     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         | R828, 29 | ERJ6GEYJ821 | M. RESISTOR CH 1/10W 820  | 2   |         |
| R324     | ERJ6GEYJ112 | M. RESISTOR CH 1/10W 1.1K | 1   |         | R830     | ERJ6GEYJ681 | M. RESISTOR CH 1/10W 680  | 1   |         |
| R325     | ERJ6GEYOR00 | M. RESISTOR CH 1/10W      | 1   |         | R831     | ERJ6GEYOR00 | M. RESISTOR CH 1/10W      | 1   |         |
| R326     | ERJ6GEYJ104 | M. RESISTOR CH 1/10W 100K | 1   |         | R832     | ERJ6GEYJ112 | M. RESISTOR CH 1/10W 1.1K | 1   |         |
| R327     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         | R833     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         |
| R328     | ERJ6GEYJ123 | M. RESISTOR CH 1/10W 12K  | 1   |         | R834     | ERJ6GEYJ183 | M. RESISTOR CH 1/10W 18K  | 1   |         |
| R329     | ERJ6GEYJ104 | M. RESISTOR CH 1/10W 100K | 1   |         | R835     | ERJ6GEYJ562 | M. RESISTOR CH 1/10W 5.6K | 1   |         |
| R331     | ERJ6GEYJ100 | M. RESISTOR CH 1/10W 10   | 1   |         | R836     | ERJ6GEYJ104 | M. RESISTOR CH 1/10W 100K | 1   |         |
| R338, 39 | VRE0034E272 | M. RESISTOR CH 1/10W 2.7K | 2   |         | R837, 38 | ERJ6GEYJ122 | M. RESISTOR CH 1/10W 1.2K | 2   |         |
| R340     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         | R839     | VRE0034E362 | M. RESISTOR CH 1/10W 3.6K | 1   |         |
| R341     | VRE0034E473 | M. RESISTOR CH 1/10W 47K  | 1   |         | R840     | ERJ6GEYJ122 | M. RESISTOR CH 1/10W 1.2K | 1   |         |
| R342     | VRE0034E272 | M. RESISTOR CH 1/10W 2.7K | 1   |         | R841, 42 | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 2   |         |
| R343     | VRE0034E470 | M. RESISTOR CH 1/10W 47   | 1   |         | R843     | ERJ6GEYJ473 | M. RESISTOR CH 1/10W 47K  | 1   |         |
| R344     | VRE0034E104 | M. RESISTOR CH 1/10W 100K | 1   |         | R843     | ERJ6GEYJ561 | M. RESISTOR CH 1/10W 560  | 1   |         |
| R345     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         | R844     | ERJ6GEYJ473 | M. RESISTOR CH 1/10W 47K  | 1   |         |
| R347     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         | R844     | ERJ6GEYJ561 | M. RESISTOR CH 1/10W 560  | 1   |         |
| R348, 49 | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 2   |         | R845     | ERJ6GEYJ273 | M. RESISTOR CH 1/10W 27K  | 1   |         |
| R350     | ERJ6GEYJ223 | M. RESISTOR CH 1/10W 22K  | 1   |         | R914     | ERJ6GEYJ104 | M. RESISTOR CH 1/10W 100K | 1   |         |
| R351     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         | R917, 18 | ERJ6GEYJ561 | M. RESISTOR CH 1/10W 560  | 2   |         |
| R352     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         | R919, 20 | ERJ6GEYJ222 | M. RESISTOR CH 1/10W 2.2K | 2   |         |
| R353     | ERJ6GEYJ221 | M. RESISTOR CH 1/10W 220  | 1   |         | R921     | VRE0034E223 | M. RESISTOR CH 1/10W 22K  | 1   |         |
| R354     | ERJ6GEYJ101 | M. RESISTOR CH 1/10W 100  | 1   |         | R922, 23 | ERJ6GEYJ104 | M. RESISTOR CH 1/10W 100K | 2   |         |
| R355     | ERJ6GEYJ272 | M. RESISTOR CH 1/10W 2.7K | 1   |         | R924     | ERJ6GEYJ393 | M. RESISTOR CH 1/10W 39K  | 1   |         |
| R356     | ERJ6GEYJ332 | M. RESISTOR CH 1/10W 3.3K | 1   |         | R925     | ERJ6GEYJ123 | M. RESISTOR CH 1/10W 12K  | 1   |         |
| R357     | VRE0034E102 | M. RESISTOR CH 1/10W 1K   | 1   |         | R926     | ERJ6GEYJ334 | M. RESISTOR CH 1/10W 330K | 1   |         |
| R358     | VRE0034E332 | M. RESISTOR CH 1/10W 3.3K | 1   |         | R927     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         |
| R359     | ERJ6GEYJ221 | M. RESISTOR CH 1/10W 220  | 1   |         | R928     | ERJ6GEYJ104 | M. RESISTOR CH 1/10W 100K | 1   |         |
| R360     | VRE0034E823 | M. RESISTOR CH 1/10W 82K  | 1   |         | R939     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         |
| R361     | VRE0034E333 | M. RESISTOR CH 1/10W 33K  | 1   |         | R940     | ERJ6GEYJ560 | M. RESISTOR CH 1/10W 56   | 1   |         |
| R362     | VRE0034E823 | M. RESISTOR CH 1/10W 82K  | 1   |         | R941     | ERJ6GEYJ392 | M. RESISTOR CH 1/10W 3.9K | 1   |         |
| R364     | VRE0034E683 | M. RESISTOR CH 1/10W 68K  | 1   |         | R942     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         |
| R365     | VRE0034E222 | M. RESISTOR CH 1/10W 2.2K | 1   |         | R943     | ERJ6GEYJ222 | M. RESISTOR CH 1/10W 2.2K | 1   |         |
| R366     | VRE0034E512 | M. RESISTOR CH 1/10W 5.1K | 1   |         | R944     | ERJ6GEYJ823 | M. RESISTOR CH 1/10W 82K  | 1   |         |
| R367     | VRE0034E822 | M. RESISTOR CH 1/10W 8.2K | 1   |         | R945     | ERJ6GEYJ273 | M. RESISTOR CH 1/10W 27K  | 1   |         |
| R368     | VRE0034E203 | M. RESISTOR CH 1/10W 20K  | 1   |         | R946-48  | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 3   |         |
| R369     | VRE0034E821 | M. RESISTOR CH 1/10W 820  | 1   |         | R949     | ERJ6GEYJ390 | M. RESISTOR CH 1/10W 39   | 1   |         |
| R501     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         | R950     | ERJ6GEYJ392 | M. RESISTOR CH 1/10W 3.9K | 1   |         |
| R502, 03 | ERJ6GEYJ223 | M. RESISTOR CH 1/10W 22K  | 2   |         | R951     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         |
| R508     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         | R952     | ERJ6GEYJ222 | M. RESISTOR CH 1/10W 2.2K | 1   |         |
| R509     | ERJ6GEYJ223 | M. RESISTOR CH 1/10W 22K  | 1   |         | R953     | ERJ6GEYJ823 | M. RESISTOR CH 1/10W 82K  | 1   |         |
| R510     | ERJ6GEYJ273 | M. RESISTOR CH 1/10W 27K  | 1   |         | R954     | ERJ6GEYJ273 | M. RESISTOR CH 1/10W 27K  | 1   |         |
| R511     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         | R955, 56 | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 2   |         |
| R701     | ERJ6GEYJ104 | M. RESISTOR CH 1/10W 100K | 1   |         | R957     | ERJ6GEYJ222 | M. RESISTOR CH 1/10W 2.2K | 1   |         |
| R702, 03 | ERJ6GEYJ332 | M. RESISTOR CH 1/10W 3.3K | 1   |         | R958     | ERJ6GEYJ823 | M. RESISTOR CH 1/10W 82K  | 1   |         |
| R704     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         | R959     | ERJ6GEYJ273 | M. RESISTOR CH 1/10W 27K  | 1   |         |
| R705     | ERJ6GEYJ272 | M. RESISTOR CH 1/10W 2.7K | 1   |         | R960     | ERJ6GEYJ101 | M. RESISTOR CH 1/10W 100  | 1   |         |
| R706     | ERJ6GEYJ102 | M. RESISTOR CH 1/10W 1K   | 1   |         | R961     | ERJ6GEYJ103 | M. RESISTOR CH 1/10W 10K  | 1   |         |

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| Ref.No. | Part No.    | Part Name & Description               | Pcs | Remarks                        |
|---------|-------------|---------------------------------------|-----|--------------------------------|
|         | MEP80549A   | P.C. BOARD W/COMPONENT<br>BO MOTHER 2 |     | FOR AU-65-P,E,B<br>AU-62-P,E,B |
| B1L     | VJS2899A096 | CONNECTOR (FEMALE)                    | 1   |                                |
| B2L     | VJS2899A096 | CONNECTOR (FEMALE)                    | 1   |                                |
| B1R     | VJS2899A096 | CONNECTOR (FEMALE)                    | 1   |                                |
|         |             | CAPACITORS                            |     |                                |
| C1      | ECBA0JU221  | E. CAPACITOR 6.3V 220U                | 1   |                                |
| C2      | ECQ81H473JF | P. CAPACITOR 50V 0.047U               | 1   |                                |
| Q50     | VJP2893A064 | CONNECTOR (MALE)                      | 1   |                                |
| Q51     | VJP1247T    | CONNECTOR (MALE) 7P                   | 1   |                                |
| Q52     | VJP1233T    | CONNECTOR (MALE) 6P                   | 1   |                                |
| Q53     | VJP2856A026 | CONNECTOR (MALE)                      | 1   |                                |
| Q54     | VJP1394T    | CONNECTOR (MALE)                      | 1   |                                |
| Q55     | VJP1931T    | CONNECTOR (MALE)                      | 1   |                                |
| Q56     | VJP1929T    | CONNECTOR (MALE)                      | 1   |                                |
| Q57     | VJP1393T    | CONNECTOR (MALE) 13P                  | 1   |                                |
| Q58     | VJP1248T    | CONNECTOR (MALE) 8P                   | 1   |                                |
| Q59     | VJP1930T    | CONNECTOR                             | 1   |                                |
| Q510    | VJP1243T    | CONNECTOR (MALE) 3P                   | 1   |                                |
| P10     | VJP1709     | CONNECTOR (MALE)                      | 1   |                                |
|         |             | MISCELLANEOUS                         |     |                                |
|         | WMP2599     | P.C.B. HOLDER ANGLE                   | 1   |                                |
|         | XNG26E      | NUT                                   | 6   |                                |
|         | XTV3+6F     | SCREW                                 | 5   |                                |
|         | XYN26+CB    | SCREW                                 | 6   |                                |

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| Ref.No. | Part No.    | Part Name & Description               | Pcs | Remarks         |
|---------|-------------|---------------------------------------|-----|-----------------|
|         | MEP80549B   | P.C. BOARD W/COMPONENT<br>BO MOTHER 2 |     | FOR AU-65-P,E,B |
| B1L     | VJS2899A096 | CONNECTOR (FEMALE)                    | 1   |                 |
| B2L     | VJS2899A096 | CONNECTOR (FEMALE)                    | 1   |                 |
| B1R     | VJS2899A096 | CONNECTOR (FEMALE)                    | 1   |                 |
|         |             | CAPACITORS                            |     |                 |
| C1      | ECBA0JU221  | E. CAPACITOR 6.3V 220U                | 1   |                 |
| C2      | ECQ81H473JF | P. CAPACITOR 50V 0.047U               | 1   |                 |
| Q50     | VJP2893A064 | CONNECTOR (MALE)                      | 1   |                 |
| Q51     | VJP1247T    | CONNECTOR (MALE) 7P                   | 1   |                 |
| Q52     | VJP1233T    | CONNECTOR (MALE) 6P                   | 1   |                 |
| Q53     | VJP2856A026 | CONNECTOR (MALE)                      | 1   |                 |
| Q54     | VJP1394T    | CONNECTOR (MALE)                      | 1   |                 |
| Q55     | VJP1931T    | CONNECTOR (MALE)                      | 1   |                 |
| Q56     | VJP1929T    | CONNECTOR (MALE)                      | 1   |                 |
| Q57     | VJP1393T    | CONNECTOR (MALE) 13P                  | 1   |                 |
| Q58     | VJP1248T    | CONNECTOR (MALE) 8P                   | 1   |                 |
| Q59     | VJP1930T    | CONNECTOR                             | 1   |                 |
| Q510    | VJP1243T    | CONNECTOR (MALE) 3P                   | 1   |                 |
| P10     | VJP1709     | CONNECTOR (MALE)                      | 1   |                 |
|         |             | MISCELLANEOUS                         |     |                 |
|         | WMP2599     | P.C.B. HOLDER ANGLE                   | 1   |                 |
|         | XNG26E      | NUT                                   | 6   |                 |
|         | XTV3+6F     | SCREW                                 | 5   |                 |
|         | XYN26+CB    | SCREW                                 | 6   |                 |

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| Ref.No. | Part No.     | Part Name & Description                     | Pcs | Remarks     |
|---------|--------------|---|-----|-------------|
|         | VEP86088A    | P.C. BOARD W/COMPONENT<br>BI SYSTEM CONTROL |     | FOR AU-65-P |
| B1L     | WJ2899B096   | CONNECTOR (MALE)                            | 1   |             |
| B1R     | WJ2899B096   | CONNECTOR (MALE)                            | 1   |             |
|         |              | CAPACITORS                                  |     |             |
| C1, C2  | ECUM1H331JCN | C. CAPACITOR CH 50V 330P                    | 2   |             |
| C3-C5   | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P                   | 3   |             |
| C6-C9   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 4   |             |
| C10     | ECFA0J0221   | E. CAPACITOR 6.3V 220U                      | 1   |             |
| C11     | ECFA0J0101   | E. CAPACITOR 6.3V 100U                      | 1   |             |
| C12,13  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U                    | 2   |             |
| C14,15  | ECUM1H270JCN | C. CAPACITOR CH 50V 27P                     | 2   |             |
| C16-18  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 3   |             |
| C19     | ECFA1H03R3   | E. CAPACITOR 50V 3.3U                       | 1   |             |
| C20     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U                       | 1   |             |
| C21-23  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 3   |             |
| C25     | ECFA0J0471   | E. CAPACITOR 6.3V 470U                      | 1   |             |
| C26, 27 | ECUM1H600JCN | C. CAPACITOR CH 50V 68P                     | 2   |             |
| C28-33  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 6   |             |
| C34     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U                    | 1   |             |
| C35,36  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.02U                   | 2   |             |
| C37     | ECFA1C0100   | E. CAPACITOR 16V 10U                        | 1   |             |
| C38-41  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U                    | 4   |             |
| C42-47  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 6   |             |
| C50     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 1   |             |
| C51     | ECFA1C0100   | E. CAPACITOR 16V 10U                        | 1   |             |
| C52     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U                    | 1   |             |
| C53     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 1   |             |
| C75-82  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 8   |             |
| C83,84  | ECFA1H0010   | E. CAPACITOR 50V 1U                         | 2   |             |
| C85     | ECFA1C0100S  | E. CAPACITOR 16V 10U                        | 1   |             |
| C86     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P                    | 1   |             |
| C87     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 1   |             |
| C88     | ECFA1C0100S  | E. CAPACITOR 16V 10U                        | 1   |             |
| C89     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P                    | 1   |             |
| C90     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 1   |             |
| C91     | ECFA1H0010   | E. CAPACITOR 50V 1U                         | 1   |             |
| C92     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 1   |             |
| C93     | ECQF1H392JZ  | P. CAPACITOR 50V 3900P                      | 1   |             |
| C94     | ECFA1H0010   | E. CAPACITOR 50V 1U                         | 1   |             |
| C95     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 1   |             |
| C96-99  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U                    | 4   |             |
| C100,01 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U                    | 2   |             |
| C102-06 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 5   |             |
| C107    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U                    | 1   |             |
| C108-14 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 7   |             |
| C115    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U                    | 1   |             |
| C116-19 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 4   |             |
| C120    | ECFA1H0010   | E. CAPACITOR 50V 1U                         | 1   |             |
| C121-23 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 3   |             |
| C124    | ECUM1H150JCN | C. CAPACITOR CH 50V 15P                     | 1   |             |
| C125    | ECUM1H270JCN | C. CAPACITOR CH 50V 27P                     | 1   |             |
| C127-38 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 12  |             |
| C140    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 1   |             |
| C141    | ECFA1H02R2   | E. CAPACITOR 50V 2.2U                       | 1   |             |
| C142    | ECQM1H154JF  | P. CAPACITOR 50V 0.15U                      | 1   |             |
| C143    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U                       | 1   |             |
| C147,48 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 2   |             |
| C151    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U                   | 1   |             |
| C154    | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P                   | 1   |             |
| C500-02 | ECFA1E04R7   | E. CAPACITOR 25V 4.7U                       | 3   |             |
| C503-05 | ECFA1H02R2S  | E. CAPACITOR 50V 2.2U                       | 3   |             |
| C506-08 | ECFA1E0101   | E. CAPACITOR 25V 100U                       | 3   |             |

| Ref.No. | Part No.      | Part Name & Description | Pcs | Remarks |
|---------|---------------|-------------------------|-----|---------|
| D1      | MA151WA       | DIODE                   | 1   |         |
| D2      | MA153         | DIODE                   | 1   |         |
| D3      | MA151K        | DIODE                   | 1   |         |
| D4,D5   | MA151WA       | DIODE                   | 2   |         |
| D6-D9   | MA151K        | DIODE                   | 4   |         |
| D10-13  | MA151K        | DIODE                   | 4   |         |
| D15     | MA151K        | DIODE                   | 1   |         |
| D16     | MA151WK       | DIODE                   | 1   |         |
| D17     | MA151WA       | DIODE                   | 1   |         |
| D18,19  | MA151K        | DIODE                   | 2   |         |
| D20     | MA151WK       | DIODE                   | 1   |         |
| D500    | MA151K        | DIODE                   | 1   |         |
| D501-06 | 10E1          | DIODE                   | 6   |         |
| D507,08 | MA151K        | DIODE                   | 2   |         |
| D509    | 10E1          | DIODE                   | 1   |         |
| D510    | MA151WK       | DIODE                   | 1   |         |
| D511    | MA3039H       | DIODE                   | 1   |         |
| D512    | MA3075H       | DIODE                   | 1   |         |
| D513    | MA3051H       | DIODE                   | 1   |         |
| D514    | MA3056R       | DIODE                   | 1   |         |
| D515    | MA3100M       | DIODE                   | 1   |         |
| IC1     | MC14024BF     | IC                      | 1   |         |
| IC2     | MC34051M      | IC                      | 1   |         |
| IC3     | TMP284C043AF6 | IC                      | 1   |         |
| IC4     | UPD71054GB    | IC                      | 1   |         |
| IC5     | HD641802F8    | IC                      | 1   |         |
| IC6     | TL7705CP8B    | IC                      | 1   |         |
| IC7     | VSI0634E      | IC                      | 1   |         |
| IC8,C9  | MC74HC541F    | IC                      | 2   |         |
| IC10    | MM22122D      | IC                      | 1   |         |
| IC11    | VSI0234       | IC                      | 1   |         |
| IC13    | MC74HC4538F   | IC                      | 1   |         |
| IC14    | MC74HC541F    | IC                      | 1   |         |
| IC15    | MC74HC245AF   | IC                      | 1   |         |
| IC16,17 | MC74HC138AF   | IC                      | 2   |         |
| IC18    | MB89363BPF    | IC                      | 1   |         |
| IC19,20 | MC14094BF     | IC                      | 2   |         |
| IC21    | MB89363BPF    | IC                      | 1   |         |
| IC24    | MC14013BF     | IC                      | 1   |         |
| IC25,26 | MC14027BF     | IC                      | 2   |         |
| IC27-29 | MC14538BF     | IC                      | 3   |         |
| IC30    | MB621176PF    | IC                      | 1   |         |
| IC31    | MB89363BPF    | IC                      | 1   |         |
| IC32,33 | MC14021BF     | IC                      | 2   |         |
| IC34    | MC14094BF     | IC                      | 1   |         |
| IC35    | MB89363BPF    | IC                      | 1   |         |
| IC36-41 | MC14021BF     | IC                      | 6   |         |
| IC42    | MB89363BPF    | IC                      | 1   |         |
| IC43,44 | MC14094BF     | IC                      | 2   |         |
| IC45    | MC14021BF     | IC                      | 1   |         |
| IC46    | MS0455-001SP  | IC                      | 1   |         |
| IC47,48 | MC14050BF     | IC                      | 2   |         |
| IC49    | SN74LS38NS    | IC                      | 1   |         |
| IC50,51 | MC74HC132F    | IC                      | 2   |         |
| IC52    | MC74HC04AF    | IC                      | 1   |         |
| IC53,54 | MC140490BF    | IC                      | 2   |         |
| IC55    | MC74HC00AF    | IC                      | 1   |         |
| IC56    | N74F32B       | IC                      | 1   |         |
| IC57    | MM4030BS      | IC                      | 1   |         |
| IC58    | MC74HC541F    | IC                      | 1   |         |
| IC59    | LM2903M       | IC                      | 1   |         |
| IC60,61 | NJM2901M      | IC                      | 2   |         |
| IC62    | MC74HC00AF    | IC                      | 1   |         |
| IC63    | MC74HC138AF   | IC                      | 1   |         |
| IC64,65 | MC14021BF     | IC                      | 2   |         |
| IC66,67 | MC14094BF     | IC                      | 2   |         |
| IC68    | MB89363BPF    | IC                      | 1   |         |
| IC69    | TC74HC190F    | IC                      | 1   |         |
| IC71    | MC14538BF     | IC                      | 1   |         |
| IC72    | MC74HC86F     | IC                      | 1   |         |

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| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks     | Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|---------------------------|-----|-------------|----------|--------------|-------------------------|-----|---------|
|          | VEP86088C    | P.C. BOARD W/COMPONENT    |     | FOR AU-62-P |          |              |                         |     |         |
|          |              | B1 SYSTEM CONTROL         |     |             |          |              |                         |     |         |
|          |              |                           |     |             |          |              |                         |     |         |
|          |              |                           |     |             |          |              |                         |     |         |
|          |              |                           |     |             |          |              |                         |     |         |
|          |              |                           |     |             |          |              |                         |     |         |
|          |              |                           |     |             |          |              |                         |     |         |
|          |              |                           |     |             |          |              |                         |     |         |
|          |              |                           |     |             |          |              |                         |     |         |
|          |              |                           |     |             |          |              |                         |     |         |
| B1L      | WJF2899B096  | CONNECTOR(MALE)           | 1   |             | D1       | MA151WA      | DIODE                   | 1   |         |
| B1R      | WJF2899B096  | CONNECTOR(MALE)           | 1   |             | D2       | MA153        | DIODE                   | 1   |         |
|          |              |                           |     |             | D3       | MA151K       | DIODE                   | 1   |         |
|          |              |                           |     |             | D4, D5   | MA151WA      | DIODE                   | 2   |         |
|          |              |                           |     |             | D7-D9    | MA151K       | DIODE                   | 3   |         |
|          |              |                           |     |             | D10-13   | MA151K       | DIODE                   | 4   |         |
|          |              |                           |     |             | D15      | MA151K       | DIODE                   | 1   |         |
|          |              |                           |     |             | D16      | MA151WK      | DIODE                   | 1   |         |
|          |              |                           |     |             | D17      | MA151WA      | DIODE                   | 1   |         |
|          |              |                           |     |             | D18, 19  | MA151K       | DIODE                   | 2   |         |
|          |              |                           |     |             | D20      | MA151WK      | DIODE                   | 1   |         |
|          |              |                           |     |             | D500     | MA151K       | DIODE                   | 1   |         |
|          |              | CAPACITORS                |     |             | D501-06  | 10E1         | DIODE                   | 6   |         |
| C1, C2   | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 2   |             | D507, 08 | MA151K       | DIODE                   | 2   |         |
| C3-C5    | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 3   |             | D509     | 10E1         | DIODE                   | 1   |         |
| C6-C9    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 4   |             | D510     | MA151WK      | DIODE                   | 1   |         |
| C10      | ECEA0JU221   | E. CAPACITOR 6.3V 220U    | 1   |             | D511     | MA3039-H     | DIODE                   | 1   |         |
| C11      | ECEA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |             | D512     | MA3075H      | DIODE                   | 1   |         |
| C12, 13  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |             | D513     | MA3051-H     | DIODE                   | 1   |         |
| C14, 15  | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 2   |             | D514     | MA3056-H     | DIODE                   | 1   |         |
| C16-18   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 3   |             | D515     | MA3100-M     | DIODE                   | 1   |         |
| C19      | ECEA1H03R3   | E. CAPACITOR 50V 3.3U     | 1   |             |          |              |                         |     |         |
| C20      | ECQM1H1041F  | P. CAPACITOR 50V 0.1U     | 1   |             |          |              |                         |     |         |
| C21-23   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 3   |             |          |              |                         |     |         |
| C25      | ECEA0JU471   | E. CAPACITOR 6.3V 470U    | 1   |             | IC1      | MC14024BF    | IC                      | 1   |         |
| C26, 27  | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 2   |             | IC2      | MC34051M     | IC                      | 1   |         |
| C28-33   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 6   |             | IC3      | IMP284C43AF6 | IC                      | 1   |         |
| C34      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             | IC4      | UP071054GB   | IC                      | 1   |         |
| C35, 36  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |             | IC5      | HD641802P8   | IC                      | 1   |         |
| C37      | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |             | IC6      | FL7705CRSB   | IC                      | 1   |         |
| C38-41   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |             | IC7      | VSI0683B     | IC                      | 1   |         |
| C42-47   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 6   |             | IC8, C9  | MC74HC541F   | IC                      | 2   |         |
| C50      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             | IC10     | MIM221220    | IC                      | 1   |         |
| C51      | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |             | IC11     | VSI0234      | IC                      | 1   |         |
| C52      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             | IC13     | MC74HC4538F  | IC                      | 1   |         |
| C53      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             | IC14     | MC74HC541F   | IC                      | 1   |         |
| C75-82   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 8   |             | IC15     | MC74HC245AF  | IC                      | 1   |         |
| C83, 84  | ECEA1H0010   | E. CAPACITOR 50V 1U       | 2   |             | IC16, 17 | MC74HC138AF  | IC                      | 2   |         |
| C85      | ECEA1CN100S  | E. CAPACITOR 16V 10U      | 1   |             | IC18     | MB89363BPF   | IC                      | 1   |         |
| C86      | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |             | IC19, 20 | MC14094BF    | IC                      | 2   |         |
| C87      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             | IC21     | MB89363BPF   | IC                      | 1   |         |
| C88      | ECEA1CN100S  | E. CAPACITOR 16V 10U      | 1   |             | IC24     | MC14013BF    | IC                      | 1   |         |
| C89      | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |             | IC25, 26 | MC14027BF    | IC                      | 2   |         |
| C90      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             | IC27-29  | MC14538BF    | IC                      | 3   |         |
| C91      | ECEA1H0010   | E. CAPACITOR 50V 1U       | 1   |             | IC30     | MB621176PFF  | IC                      | 1   |         |
| C92      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             | IC31     | MB89363BPF   | IC                      | 1   |         |
| C93      | ECQP1H392J2  | P. CAPACITOR 50V 3900P    | 1   |             | IC34     | MC14094BF    | IC                      | 1   |         |
| C94      | ECEA1H0010   | E. CAPACITOR 50V 1U       | 1   |             | IC35     | MB89363BPF   | IC                      | 1   |         |
| C95      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             | IC36-41  | MC14021BF    | IC                      | 6   |         |
| C96-99   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |             | IC42     | MB89363BPF   | IC                      | 1   |         |
| C100, 01 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |             | IC43, 44 | MC14094BF    | IC                      | 2   |         |
| C105, 06 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |             | IC45     | MC14021BF    | IC                      | 1   |         |
| C107     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             | IC46     | MS0455-001SP | IC                      | 1   |         |
| C108-14  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 7   |             | IC47, 48 | MC14050BF    | IC                      | 2   |         |
| C115     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             | IC49     | SN74LS38NS   | IC                      | 1   |         |
| C116-19  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 4   |             | IC50, 51 | MC74HC132F   | IC                      | 2   |         |
| C120     | ECEA1H0010   | E. CAPACITOR 50V 1U       | 1   |             | IC52     | MC74HC04AF   | IC                      | 1   |         |
| C121-23  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 3   |             | IC53, 54 | MC14049UBF   | IC                      | 2   |         |
| C124     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |             | IC55     | MC74HC00AF   | IC                      | 1   |         |
| C125     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |             | IC56     | M74F32FP     | IC                      | 1   |         |
| C127-38  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 12  |             | IC57     | MM4030BS     | IC                      | 1   |         |
| C140     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             | IC58     | MC74HC541F   | IC                      | 1   |         |
| C141     | ECEA1H02R2   | E. CAPACITOR 50V 2.2U     | 1   |             | IC59     | LM2903M      | IC                      | 1   |         |
| C142     | ECQM1H1541F  | P. CAPACITOR 50V 0.15U    | 1   |             | IC60, 61 | NJM2901M     | IC                      | 2   |         |
| C143     | ECQM1H1041F  | P. CAPACITOR 50V 0.1U     | 1   |             | IC62     | MC74HC00AF   | IC                      | 1   |         |
| C147, 48 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |             | IC63     | MC74HC138AF  | IC                      | 1   |         |
| C151     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             | IC64, 65 | MC14021BF    | IC                      | 2   |         |
| C154     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |             | IC66, 67 | MC14094BF    | IC                      | 2   |         |
| C155     | ECKP1H102KB  | C. CAPACITOR 50V 1000P    | 1   |             | IC68     | MB89363BPF   | IC                      | 1   |         |
| C500-02  | ECEA1E04R7   | E. CAPACITOR 25V 4.7U     | 3   |             | IC69     | TC74HC190AF  | IC                      | 1   |         |
| C503-05  | ECEA1H02R2S  | E. CAPACITOR 50V 2.2U     | 3   |             | IC71     | MC14538BF    | IC                      | 1   |         |
| C506-08  | ECEA1E0101   | E. CAPACITOR 25V 100U     | 3   |             | IC72     | MC74HC86F    | IC                      | 1   |         |

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| Ref.No.   | Part No.     | Part Name & Description  | Pcs     | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|-----------|--------------|--------------------------|---------|---------|----------|-------------|--------------------------|-----|---------|
| IC75      | MM40308S     | IC                       | 1       |         | R97      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| IC500     | FU3124       | IC                       | 1       |         | R100     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| IC501     | FU4124       | IC                       | 1       |         | R101     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| IC502, 03 | BA6238AU2H   | IC                       | 2       |         | R102, 03 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| IC79      | VJS2336A032  | CONNECTOR (FEMALE)       | 1       |         | R104     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| IC108     | VJS2336A018  | CONNECTOR (FEMALE)       | 1       |         | R105     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
|           |              |                          |         |         | R106     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
|           |              |                          |         |         | R107-22  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 16  |         |
|           |              |                          |         |         | R123-25  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 3   |         |
| L1        | VLP0017      | COIL                     | 1       |         | R126, 27 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| L2        | VLOBL05S150J | COIL 15UH                | 1       |         | R128     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
|           |              |                          |         |         | R129     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|           |              |                          |         |         | R130-32  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
|           |              |                          |         |         | R133, 34 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| Q1        | 2SB710-R     | TRANSISTOR               | 1 (Q,R) |         | R135     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q2        | DTC144EK     | TRANSISTOR-RESISTOR      | 1       |         | R136     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q3, Q4    | DTC114YK     | TRANSISTOR-RESISTOR      | 2       |         | R137-43  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 7   |         |
| Q5        | UN2214       | TRANSISTOR-RESISTOR      | 1       |         | R144     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q9        | UN2214       | TRANSISTOR-RESISTOR      | 1       |         | R145     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q15       | 2SB710-R     | TRANSISTOR               | 1 (Q,R) |         | R146     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q16       | 2SD602-R     | TRANSISTOR               | 1 (Q,R) |         | R147     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q17-22    | DTC144EK     | TRANSISTOR-RESISTOR      | 6       |         | R148     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q25-27    | DTC144EK     | TRANSISTOR-RESISTOR      | 3       |         | R149     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q29-35    | DTC144EK     | TRANSISTOR-RESISTOR      | 7       |         | R150     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q36-42    | DTC144EK     | TRANSISTOR-RESISTOR      | 5       |         | R151     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q44       | DTC144EK     | TRANSISTOR-RESISTOR      | 1       |         | R152     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q46, 47   | DTC144EK     | TRANSISTOR-RESISTOR      | 2       |         | R153     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q48       | 2SD946A      | TRANSISTOR               | 1       |         | R154     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q500, 01  | UN2213       | TRANSISTOR-RESISTOR      | 2       |         | R155     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q502, 03  | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q,R) |         | R156, 57 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| Q504      | UN2213       | TRANSISTOR-RESISTOR      | 1       |         | R158     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q505, 05  | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q,R) |         | R159     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q507      | UN2213       | TRANSISTOR-RESISTOR      | 1       |         | R160, 61 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q508, 09  | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q,R) |         | R162     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q510-14   | UN2213       | TRANSISTOR-RESISTOR      | 5       |         | R163     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q515      | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         | R164     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
|           |              |                          |         |         | R165     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|           |              |                          |         |         | R166     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
|           |              | RESISTORS                |         |         | R167     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R1        | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R168, 69 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R2        | ERJ6GEYJ0R00 | M.RESISTOR CH 1/10W 0    | 1       |         | R170     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R3        | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R171     | VRE0034E523 | M.RESISTOR CH 1/10W 62K  | 1   |         |
| R4        | ERJ6GEYJ0R00 | M.RESISTOR CH 1/10W 0    | 1       |         | R172     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R5        | ERJ6GEYJ562  | M.RESISTOR CH 1/10W 5.6K | 1       |         | R173-83  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 11  |         |
| R6        | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R184-86  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
| R7-R9     | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 3       |         | R187-91  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R10       | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R192, 93 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R11       | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1       |         | R194-01  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 8   |         |
| R12       | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         | R202     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R13, 14   | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 2       |         | R203-06  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         |
| R15       | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         | R207, 08 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R16       | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1       |         | R209, 10 | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R17       | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R211     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R18       | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         | R212     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R19-22    | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 4       |         | R213     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R23-31    | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 9       |         | R214     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R32       | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         | R215     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R33       | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         | R216, 17 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R34       | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R218, 19 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R35       | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R220     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R36       | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R221     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R37-47    | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 11      |         | R222     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R48       | ERJ6GEYJ474  | M.RESISTOR CH 1/10W 470K | 1       |         | R223     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R49       | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R224     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R50       | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R225     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R51, 52   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 2       |         | R226     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R53       | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R227     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R54-72    | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 19      |         | R228     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R73-77    | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 5       |         | R229     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R79       | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R230     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R81-85    | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 5       |         | R231     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R86, 87   | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 2       |         | R232     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R88       | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R233, 34 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R93-96    | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 4       |         | R235     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|           |              |                          |         |         | R236-39  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 4   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|-------------------------|-----|---------|
| R240    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | SW1     | VSSD223     | SWITCH                  | 1   |         |
| R241-45 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 5   |         | SW3     | VSR0045     | SWITCH                  | 1   |         |
| R247    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | SW4-46  | EVQDEJ05K   | SWITCH                  | 3   |         |
| R248,49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | SW7     | VST0096     | SWITCH                  | 1   |         |
| R250    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R251    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |         |             |                         |     |         |
| R252    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R253    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | TP17-19 | VJR0646     | TEST POINT              | 3   |         |
| R254    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | TPG1,G2 | VJR0646     | TEST POINT              | 2   |         |
| R255    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |         |             |                         |     |         |
| R256    | ERJ6GEYJ23  | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R257    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |         |             |                         |     |         |
| R258    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | VC1     | BCV12W20X60 | V. CAPACITOR 20P        | 1   |         |
| R259,60 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |         |             |                         |     |         |
| R261    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |         |             |                         |     |         |
| R262    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R263    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | X1      | VSM0373     | CRYSTAL OSCILLATOR      | 1   |         |
| R264,65 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |         |             |                         |     |         |
| R266-68 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 3   |         |         |             |                         |     |         |
| R269    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R270    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |         |             |                         |     |         |
| R272-77 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 6   |         |         |             | MISCELLANEOUS           |     |         |
| R278-85 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 8   |         |         | VML2143     | CARD FULLER             | 1   |         |
| R286    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         | VML2144     | CARD FULLER             | 1   |         |
| R287    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         | VMS4174     | PIN                     | 4   |         |
| R288,89 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |         | VW21548     | BARRIER                 | 1   |         |
| R290    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |         | VSC3057     | SHIELD CASE             | 1   |         |
| R291,92 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |         | VSC3058     | SHIELD CASE             | 1   |         |
| R294    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         | VSC3059     | SHIELD CASE             | 1   |         |
| R295    | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         |         | VXA3967     | P.C.B. SHIELD PLATE     | 1   |         |
| R296    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |         | XNG26E      | NUT                     | 4   |         |
| R301    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |         | XNG3ES      | NUT                     | 2   |         |
| R302,03 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         |         | XSN3+6S     | SCREW                   | 2   |         |
| R304    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |         | XNV3+K6PR   | SCREW                   | 4   |         |
| R502    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |         | XNM26+C10   | SCREW                   | 1   |         |
| R504    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |         |             |                         |     |         |
| R505    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R506    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R507    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R508    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R509    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R510    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R511    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R512    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R513    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |         |             |                         |     |         |
| R514    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R515    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R516    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R517    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R518    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R519    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R520    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R521    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R522    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |         |             |                         |     |         |
| R523    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R524    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R525    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R526    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R527    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R528    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R529    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R530    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R531,32 | BRX1SJ1R0   | M.RESISTOR 1W            | 2   |         |         |             |                         |     |         |
| R533    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R536    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |         |             |                         |     |         |
| R537    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |         |             |                         |     |         |
| R538    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R539    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R540    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R541    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R542    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |         |             |                         |     |         |
| R543    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |         |             |                         |     |         |

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| Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks     |
|----------|--------------|---------------------------|-----|-------------|
|          | VEP86088D    | P.C. BOARD W/COMPONENT    |     | FOR AU-63-P |
|          |              | B1 SYSTEM CONTROL         |     |             |
|          |              |                           |     |             |
|          |              |                           |     |             |
|          |              |                           |     |             |
|          |              |                           |     |             |
|          |              |                           |     |             |
|          |              |                           |     |             |
|          |              |                           |     |             |
|          |              |                           |     |             |
|          |              |                           |     |             |
| B1L      | WJF2899B096  | CONNECTOR(MALE)           | 1   |             |
| B1R      | WJF2899B096  | CONNECTOR(MALE)           | 1   |             |
|          |              |                           |     |             |
|          |              |                           |     |             |
|          |              | CAPACITORS                |     |             |
| C1, C2   | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 2   |             |
| C3-C5    | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 3   |             |
| C6-C9    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 4   |             |
| C10      | ECFA0JU221   | E. CAPACITOR 6.3V 220U    | 1   |             |
| C11      | ECFA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |             |
| C12, 13  | ECUM1H1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |             |
| C14, 15  | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 2   |             |
| C16-18   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 3   |             |
| C19      | ECFA1HU3R3   | E. CAPACITOR 50V 3.3U     | 1   |             |
| C20      | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |             |
| C21-23   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 3   |             |
| C25      | ECFA0JU471   | E. CAPACITOR 6.3V 470U    | 1   |             |
| C26, 27  | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 2   |             |
| C28-33   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 6   |             |
| C34      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |
| C35, 36  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |             |
| C37      | ECFA1CU100   | E. CAPACITOR 16V 10U      | 1   |             |
| C38-41   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |             |
| C42-47   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 6   |             |
| C50      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C51      | ECFA1CU100   | E. CAPACITOR 16V 10U      | 1   |             |
| C52      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |
| C53      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C75-82   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 8   |             |
| C83, 84  | ECFA1HU010   | E. CAPACITOR 50V 1U       | 2   |             |
| C85      | ECFA1CN100S  | E. CAPACITOR 16V 10U      | 1   |             |
| C86      | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |             |
| C87      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C88      | ECFA1CN100S  | E. CAPACITOR 16V 10U      | 1   |             |
| C89      | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |             |
| C90      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C91      | ECFA1HU010   | E. CAPACITOR 50V 1U       | 1   |             |
| C92      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C93      | ECOP1H392JZ  | P. CAPACITOR 50V 3900P    | 1   |             |
| C94      | ECFA1HU010   | E. CAPACITOR 50V 1U       | 1   |             |
| C95      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C96-99   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |             |
| C100, 01 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |             |
| C105, 06 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |             |
| C107     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |
| C108-14  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 7   |             |
| C115     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |
| C116-19  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 4   |             |
| C120     | ECFA1HU010   | E. CAPACITOR 50V 1U       | 1   |             |
| C121-23  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 3   |             |
| C124     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |             |
| C125     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |             |
| C127-38  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 12  |             |
| C140     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C141     | ECFA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1   |             |
| C142     | ECQM1H154JF  | P. CAPACITOR 50V 0.15U    | 1   |             |
| C143     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |             |
| C147, 48 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |             |
| C151     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C154     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |             |
| C155     | ECOP1H102KB  | C. CAPACITOR 50V 1000P    | 1   |             |
| C500-02  | ECFA1EU4R7   | E. CAPACITOR 25V 4.7U     | 3   |             |
| C503-05  | ECFA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 3   |             |
| C506-08  | ECFA1EU101   | E. CAPACITOR 25V 100U     | 3   |             |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
|          |              |                         |     |         |
| D1       | MA151WA      | DIODE                   | 1   |         |
| D2       | MA153        | DIODE                   | 1   |         |
| D3       | MA151K       | DIODE                   | 1   |         |
| D4, D5   | MA151WA      | DIODE                   | 2   |         |
| D7-D9    | MA151K       | DIODE                   | 3   |         |
| D10-13   | MA151K       | DIODE                   | 4   |         |
| D15      | MA151K       | DIODE                   | 1   |         |
| D16      | MA151WK      | DIODE                   | 1   |         |
| D17      | MA151WA      | DIODE                   | 1   |         |
| D18, 19  | MA151K       | DIODE                   | 2   |         |
| D20      | MA151WK      | DIODE                   | 1   |         |
| D500     | MA151K       | DIODE                   | 1   |         |
| D501-06  | 10E1         | DIODE                   | 6   |         |
| D507, 08 | MA151K       | DIODE                   | 2   |         |
| D509     | 10E1         | DIODE                   | 1   |         |
| D510     | MA151WK      | DIODE                   | 1   |         |
| D511     | MA3039-H     | DIODE                   | 1   |         |
| D512     | MA3075H      | DIODE                   | 1   |         |
| D513     | MA3051-H     | DIODE                   | 1   |         |
| D514     | MA3056-H     | DIODE                   | 1   |         |
| D515     | MA3100-M     | DIODE                   | 1   |         |
|          |              |                         |     |         |
| IC1      | MC14024BF    | IC                      | 1   |         |
| IC2      | MC34051M     | IC                      | 1   |         |
| IC3      | TMP284C43AF6 | IC                      | 1   |         |
| IC4      | UPD71054GB   | IC                      | 1   |         |
| IC5      | HD641802PB   | IC                      | 1   |         |
| IC6      | TL7705CPSB   | IC                      | 1   |         |
| IC7      | VS10695B     | IC                      | 1   |         |
| IC8, C9  | MC74HC541P   | IC                      | 2   |         |
| IC10     | MBM221220    | IC                      | 1   |         |
| IC11     | VS10234      | IC                      | 1   |         |
| IC13     | MC74HC4538F  | IC                      | 1   |         |
| IC14     | MC74HC541P   | IC                      | 1   |         |
| IC15     | MC74HC245AF  | IC                      | 1   |         |
| IC16, 17 | MC74HC138AF  | IC                      | 2   |         |
| IC18     | MB89363BPF   | IC                      | 1   |         |
| IC19, 20 | MC14094BF    | IC                      | 2   |         |
| IC21     | MB89363BPF   | IC                      | 1   |         |
| IC24     | MC14013BF    | IC                      | 1   |         |
| IC25, 26 | MC14027BF    | IC                      | 2   |         |
| IC27-29  | MC14538BF    | IC                      | 3   |         |
| IC30     | MB621176PF   | IC                      | 1   |         |
| IC31     | MB89363BPF   | IC                      | 1   |         |
| IC34     | MC14094BF    | IC                      | 1   |         |
| IC35     | MB89363BPF   | IC                      | 1   |         |
| IC36-41  | MC14021BF    | IC                      | 6   |         |
| IC42     | MB89363BPF   | IC                      | 1   |         |
| IC43, 44 | MC14094BF    | IC                      | 2   |         |
| IC45     | MC14021BF    | IC                      | 1   |         |
| IC46     | MS0455-001SP | IC                      | 1   |         |
| IC47, 48 | MC14050BF    | IC                      | 2   |         |
| IC49     | SN74LS38NS   | IC                      | 1   |         |
| IC50, 51 | MC74HC132F   | IC                      | 2   |         |
| IC52     | MC74HC04AF   | IC                      | 1   |         |
| IC53, 54 | MC1404906F   | IC                      | 2   |         |
| IC55     | MC74HC00RF   | IC                      | 1   |         |
| IC56     | M74F32FP     | IC                      | 1   |         |
| IC57     | MN4030BS     | IC                      | 1   |         |
| IC58     | MC74HC541P   | IC                      | 1   |         |
| IC59     | LA2903M      | IC                      | 1   |         |
| IC60, 61 | NJM2901M     | IC                      | 2   |         |
| IC62     | MC74HC00AF   | IC                      | 1   |         |
| IC63     | MC74HC138AF  | IC                      | 1   |         |
| IC64, 65 | MC14021BF    | IC                      | 2   |         |
| IC66, 67 | MC14094BF    | IC                      | 2   |         |
| IC68     | MB89363BPF   | IC                      | 1   |         |
| IC69     | TC74HC190AF  | IC                      | 1   |         |
| IC71     | MC14538BF    | IC                      | 1   |         |
| IC72     | MC74HC86F    | IC                      | 1   |         |

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| Ref.No.  | Part No.     | Part Name & Description  | Pcs     | Remarks |
|----------|--------------|--------------------------|---------|---------|
| IC75     | MY40306S     | IC                       | 1       |         |
| IC500    | FU3124       | IC                       | 1       |         |
| IC501    | FU4124       | IC                       | 1       |         |
| IC502,03 | BA6238A02M   | IC                       | 2       |         |
| IC7S     | VJ52336A032  | CONNECTOR (FEMALE)       | 1       |         |
| IC10S    | VJ52336A018  | CONNECTOR (FEMALE)       | 1       |         |
|          |              |                          |         |         |
|          |              |                          |         |         |
| L1       | VLPO017      | COIL                     | 1       |         |
| L2       | VLQEL05S150J | COIL 15UH                | 1       |         |
|          |              |                          |         |         |
|          |              |                          |         |         |
| Q1       | 2SB710-R     | TRANSISTOR               | 1 (Q.R) |         |
| Q2       | DTC144EK     | TRANSISTOR-RESISTOR      | 1       |         |
| Q3, Q4   | DTC114YK     | TRANSISTOR-RESISTOR      | 2       |         |
| Q5       | UN2214       | TRANSISTOR-RESISTOR      | 1       |         |
| Q9       | UN2214       | TRANSISTOR-RESISTOR      | 1       |         |
| Q15      | 2SB710-R     | TRANSISTOR               | 1 (Q.R) |         |
| Q16      | 2SD602-R     | TRANSISTOR               | 1 (Q.R) |         |
| Q17-22   | DTC144EK     | TRANSISTOR-RESISTOR      | 6       |         |
| Q25-27   | DTC144EK     | TRANSISTOR-RESISTOR      | 3       |         |
| Q29-35   | DTC144EK     | TRANSISTOR-RESISTOR      | 7       |         |
| Q38-42   | DTC144EK     | TRANSISTOR-RESISTOR      | 5       |         |
| Q44      | DTC144EK     | TRANSISTOR-RESISTOR      | 1       |         |
| Q46, 47  | DTC144EK     | TRANSISTOR-RESISTOR      | 2       |         |
| Q48      | 2SD946A      | TRANSISTOR               | 1       |         |
| Q500,01  | UN2213       | TRANSISTOR-RESISTOR      | 2       |         |
| Q502,03  | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q.R) |         |
| Q504     | UN2213       | TRANSISTOR-RESISTOR      | 1       |         |
| Q505,06  | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q.R) |         |
| Q507     | UN2213       | TRANSISTOR-RESISTOR      | 1       |         |
| Q508,09  | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q.R) |         |
| Q510-14  | UN2213       | TRANSISTOR-RESISTOR      | 1       |         |
| Q515     | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q.R) |         |
|          |              |                          |         |         |
|          |              |                          |         |         |
|          |              | RESISTORS                |         |         |
| R1       | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R2       | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 0    | 1       |         |
| R3       | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R4       | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 0    | 1       |         |
| R5       | ERJ6GEYJ562  | M.RESISTOR CH 1/10W 5.6K | 1       |         |
| R6       | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R7-R9    | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 3       |         |
| R10      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R11      | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1       |         |
| R12      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         |
| R13,14   | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1       |         |
| R15      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         |
| R16      | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1       |         |
| R17      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R18      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R19-22   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 4       |         |
| R23-31   | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 9       |         |
| R32      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R33      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R34      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R35      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R36      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R37-47   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 11      |         |
| R48      | ERJ6GEYJ474  | M.RESISTOR CH 1/10W 470K | 1       |         |
| R49      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R50      | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R51,52   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 2       |         |
| R53      | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R54-72   | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 19      |         |
| R73-77   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 5       |         |
| R79      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R81-85   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 5       |         |
| R86,87   | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 2       |         |
| R88      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R93-96   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 4       |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R97     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R100    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R101    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R102,03 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R104    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R105    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R106    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R107-22 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 16  |         |
| R123-25 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 3   |         |
| R126,27 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| R128    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R129    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R130-32 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
| R133,34 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R135    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R136    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R137-43 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 7   |         |
| R144    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R145    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R146    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R147    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R148    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R149    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R150    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R151    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R152    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R153    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R154    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R155    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R156,57 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R158    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R159    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R160,61 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R162    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R163    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R164    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R165    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R166    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R167    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R168,69 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R170    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R171    | VRE0034E523 | M.RESISTOR CH 1/10W 62K  | 1   |         |
| R172    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R173-83 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 11  |         |
| R184-86 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
| R187-91 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         |
| R192,93 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R194-01 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R202    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R203-06 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         |
| R207,08 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R209,10 | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R211    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R212    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R213    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R214    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R215    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R216,17 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R218,19 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R220    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R221    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R222    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R223    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R224    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R225    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R226    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R227    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R228    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R229    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R230    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R231    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R232    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R233,34 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R235    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R236-39 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 4   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|-------------------------|-----|---------|
| R240    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | SW1     | VSS0223     | SWITCH                  | 1   |         |
| R241-45 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 5   |         | SW3     | VSR0045     | SWITCH                  | 1   |         |
| R247    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | SW4-W6  | EVQ0EJ06K   | SWITCH                  | 3   |         |
| R248,49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | SW7     | VST0096     | SWITCH                  | 1   |         |
| R250    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R251    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |         |             |                         |     |         |
| R252    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R253    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | TP17-19 | VJR0646     | TEST POINT              | 3   |         |
| R254    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | TPG1,G2 | VJR0646     | TEST POINT              | 2   |         |
| R255    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |         |             |                         |     |         |
| R256    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R257    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |         |             |                         |     |         |
| R258    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R259,60 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         | VCL     | ECV1Z#20K60 | V.CAPACITOR 20P         | 1   |         |
| R261    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |         |             |                         |     |         |
| R262    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R263    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | X1      | VSK0373     | CRYSTAL OSCILLATOR      | 1   |         |
| R264,65 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |         |             |                         |     |         |
| R266-68 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 3   |         |         |             |                         |     |         |
| R269    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R270    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |         |             | MISCELLANEOUS           |     |         |
| R272-77 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 6   |         |         | VML2143     | CARD PULLER             | 1   |         |
| R278-85 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |         | VML2144     | CARD PULLER             | 1   |         |
| R286    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         | VMS4174     | PIN                     | 4   |         |
| R287    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         | VME1546     | BARRIER                 | 1   |         |
| R288,89 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |         | VSC3057     | SHIELD CASE             | 1   |         |
| R290    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |         | VSC3058     | SHIELD CASE             | 1   |         |
| R291,92 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |         | VSC3059     | SHIELD CASE             | 1   |         |
| R294    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         | VXA3967     | P.C.B. SHIELD PLATE     | 1   |         |
| R295    | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         |         | XNG26E      | NUT                     | 4   |         |
| R296    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |         | XNG3ES      | NUT                     | 2   |         |
| R301    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |         | XSN3+6S     | SCREW                   | 2   |         |
| R302,03 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         |         | XYNW3+K6FR  | SCREW                   | 4   |         |
| R304    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |         | XYN26+C10   | SCREW                   | 1   |         |
| R502    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |         |             |                         |     |         |
| R504    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |         |             |                         |     |         |
| R505    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R506    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R507    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R508    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R509    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R510    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R511    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R512    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R513    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |         |             |                         |     |         |
| R514    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R515    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R516    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R517    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R518    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R519    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R520    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R521    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R522    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |         |             |                         |     |         |
| R523    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R524    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R525    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R526    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R527    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R528    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R529    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R530    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R531,32 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R533    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R536    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |         |             |                         |     |         |
| R537    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |         |             |                         |     |         |
| R538    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |         |             |                         |     |         |
| R539    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |         |             |                         |     |         |
| R540    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |         |             |                         |     |         |
| R541    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |         |             |                         |     |         |
| R542    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |         |             |                         |     |         |
| R543    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |         |             |                         |     |         |

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| Ref.No.   | Part No.     | Part Name & Description  | Pcs     | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|-----------|--------------|--------------------------|---------|---------|----------|-------------|--------------------------|-----|---------|
| IC500     | FU3124       | IC                       | 1       |         | R100     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| IC501     | FU4124       | IC                       | 1       |         | R101     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| IC502, 03 | BA6238AU2H   | IC                       | 2       |         | R102, 03 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| IC78      | VJ52336A032  | CONNECTOR (FEMALE)       | 1       |         | R104     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| IC108     | VJ52336A018  | CONNECTOR (FEMALE)       | 1       |         | R105     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
|           |              |                          |         |         | R106     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
|           |              |                          |         |         | R107-22  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 16  |         |
|           |              |                          |         |         | R123-25  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 3   |         |
| L1        | VL00017      | COIL                     | 1       |         | R126, 27 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| L2        | VL0EL05S150J | COIL 150H                | 1       |         | R128     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
|           |              |                          |         |         | R129     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|           |              |                          |         |         | R130-32  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
|           |              |                          |         |         | R133, 34 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| Q1        | 2SB710       | TRANSISTOR               | 1 (Q,R) |         | R135     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q2        | DTCL44EK     | TRANSISTOR-RESISTOR      | 1       |         | R136     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q3, Q4    | DTCL14YK     | TRANSISTOR-RESISTOR      | 1       |         | R137-43  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 7   |         |
| Q5        | UN2214       | TRANSISTOR-RESISTOR      | 1       |         | R144     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q9        | UN2214       | TRANSISTOR-RESISTOR      | 1       |         | R145     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q15       | 2SB710       | TRANSISTOR               | 1 (Q,R) |         | R146     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q16       | 2SD602       | TRANSISTOR               | 1 (Q,R) |         | R147     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q17-22    | DTCL44EK     | TRANSISTOR-RESISTOR      | 6       |         | R148     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q25-27    | DTCL44EK     | TRANSISTOR-RESISTOR      | 3       |         | R149     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q29-35    | DTCL44EK     | TRANSISTOR-RESISTOR      | 7       |         | R150     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q36-42    | DTCL44EK     | TRANSISTOR-RESISTOR      | 5       |         | R151     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q44       | DTCL44EK     | TRANSISTOR-RESISTOR      | 1       |         | R152     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q46, 47   | DTCL44EK     | TRANSISTOR-RESISTOR      | 2       |         | R153     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q48       | 2SD946A      | TRANSISTOR               | 1       |         | R154     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q500, 01  | UN2213       | TRANSISTOR-RESISTOR      | 2       |         | R155     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q502, 03  | 2SB709       | TRANSISTOR CHIP          | 2 (Q,R) |         | R156, 57 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| Q504      | UN2213       | TRANSISTOR-RESISTOR      | 1       |         | R158     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q505, 06  | 2SB709       | TRANSISTOR CHIP          | 2 (Q,R) |         | R159     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q507      | UN2213       | TRANSISTOR-RESISTOR      | 1       |         | R160, 61 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| Q508, 09  | 2SB709       | TRANSISTOR CHIP          | 2 (Q,R) |         | R162     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q510-14   | UN2213       | TRANSISTOR-RESISTOR      | 5       |         | R163     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q515      | 2SB709       | TRANSISTOR CHIP          | 1 (Q,R) |         | R164     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
|           |              |                          |         |         | R165     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|           |              |                          |         |         | R166     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
|           |              |                          |         |         | R167     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|           |              | RESISTORS                |         |         | R168, 69 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R1        | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R170     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R2        | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 0    | 1       |         | R171     | VRE0034B523 | M.RESISTOR CH 1/10W 62K  | 1   |         |
| R3        | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R172     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R4        | ERJ6GEYOR00  | M.RESISTOR CH 1/10W      | 1       |         | R173-83  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 11  |         |
| R5        | ERJ6GEYJ562  | M.RESISTOR CH 1/10W 5.6K | 1       |         | R184-86  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
| R6        | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R187-91  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R7-R9     | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 3       |         | R192, 93 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R10       | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R194-01  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 6   |         |
| R11       | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1       |         | R202     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R12       | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         | R203-06  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         |
| R13, 14   | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 2       |         | R207, 08 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R15       | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         | R209, 10 | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R16       | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1       |         | R211     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R17       | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R212     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R18       | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         | R213     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R19-22    | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 4       |         | R214     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R23-31    | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 9       |         | R215     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R32       | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         | R216, 17 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R33       | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         | R218, 19 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R34       | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R220     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R35       | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R221     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R36       | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R222     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R37-47    | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 11      |         | R223     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R48       | ERJ6GEYJ474  | M.RESISTOR CH 1/10W 470K | 1       |         | R224     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R49       | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R225     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R50       | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R226     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R51, 52   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 2       |         | R227     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R53       | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R228     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R54-72    | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 19      |         | R229     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R73-77    | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 5       |         | R230     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R79       | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R231     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R81-85    | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R232     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R86, 87   | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 2       |         | R233, 34 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R88       | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R235     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R93-96    | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 4       |         | R236-39  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 4   |         |
| R97       | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         | R240     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |

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| Ref.No.  | Part No.    | Part Name & Description   | Pcs | Remarks       |
|----------|-------------|---------------------------|-----|---------------|
|          | VEP86088M   | P.C. BOARD W/COMPONENT    |     | FOR AU-62-E,B |
|          |             | B1 SYSTEM CONTROL         |     |               |
|          |             |                           |     |               |
|          |             |                           |     |               |
|          |             |                           |     |               |
|          |             |                           |     |               |
|          |             |                           |     |               |
|          |             |                           |     |               |
|          |             |                           |     |               |
| BLL      | VJP2899B096 | CONNECTOR(MALE)           | 1   |               |
| BIR      | VJP2899B096 | CONNECTOR(MALE)           | 1   |               |
|          |             |                           |     |               |
|          |             | CAPACITORS                |     |               |
| C1, C2   | ECUMH331JCN | C. CAPACITOR CH 50V 330P  | 2   |               |
| C3-C5    | ECUMH102JCN | C. CAPACITOR CH 50V 1000P | 3   |               |
| C6-C9    | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 4   |               |
| C10      | ECFAJU221   | E. CAPACITOR 6.3V 220U    | 1   |               |
| C11      | ECFAJU101   | E. CAPACITOR 6.3V 100U    | 1   |               |
| C12, 13  | ECUMH1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |               |
| C14, 15  | ECUMH270JCN | C. CAPACITOR CH 50V 27P   | 2   |               |
| C16-18   | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 3   |               |
| C19      | ECFA1H03R3  | E. CAPACITOR 50V 3.3U     | 1   |               |
| C20      | ECQMH104JF  | P. CAPACITOR 50V 0.1U     | 1   |               |
| C21-23   | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 3   |               |
| C25      | ECFAJU471   | E. CAPACITOR 6.3V 470U    | 1   |               |
| C26, 27  | ECUMH560JCN | C. CAPACITOR CH 50V 68P   | 2   |               |
| C28-33   | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 6   |               |
| C34      | ECUMH1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |               |
| C35, 36  | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 2   |               |
| C37      | ECFA1CU100  | E. CAPACITOR 16V 10U      | 1   |               |
| C38-41   | ECUMH1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |               |
| C42-47   | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 6   |               |
| C50      | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 1   |               |
| C51      | ECFA1CU100  | E. CAPACITOR 16V 10U      | 1   |               |
| C52      | ECUMH1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |               |
| C53      | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 1   |               |
| C75-82   | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 8   |               |
| C83, 84  | ECFA1H0010  | E. CAPACITOR 50V 1U       | 2   |               |
| C85      | ECFA1CN100S | E. CAPACITOR 16V 10U      | 1   |               |
| C86      | ECUMH101JCN | C. CAPACITOR CH 50V 100P  | 1   |               |
| C87      | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 1   |               |
| C88      | ECFA1CN100S | E. CAPACITOR 16V 10U      | 1   |               |
| C89      | ECUMH101JCN | C. CAPACITOR CH 50V 100P  | 1   |               |
| C90      | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 1   |               |
| C91      | ECFA1H0010  | E. CAPACITOR 50V 1U       | 1   |               |
| C92      | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 1   |               |
| C93      | ECQPH392J2  | P. CAPACITOR 50V 3900P    | 1   |               |
| C94      | ECFA1H0010  | E. CAPACITOR 50V 1U       | 1   |               |
| C95      | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 1   |               |
| C96-99   | ECUMH1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |               |
| C100, 01 | ECUMH1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |               |
| C105, 06 | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 2   |               |
| C107     | ECUMH1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |               |
| C108-14  | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 7   |               |
| C115     | ECUMH1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |               |
| C116-19  | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 4   |               |
| C120     | ECFA1H0010  | E. CAPACITOR 50V 1U       | 1   |               |
| C121-23  | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 3   |               |
| C124     | ECUMH150JCN | C. CAPACITOR CH 50V 15P   | 1   |               |
| C125     | ECUMH270JCN | C. CAPACITOR CH 50V 27P   | 1   |               |
| C127-38  | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 12  |               |
| C140     | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 1   |               |
| C141     | ECFA1H02R2  | E. CAPACITOR 50V 2.2U     | 1   |               |
| C142     | ECQMH154JF  | P. CAPACITOR 50V 0.15U    | 1   |               |
| C143     | ECQMH104JF  | P. CAPACITOR 50V 0.1U     | 1   |               |
| C147, 48 | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 2   |               |
| C151     | ECUMH1032FN | C. CAPACITOR CH 50V 0.01U | 1   |               |
| C154     | ECUMH102JCN | C. CAPACITOR CH 50V 1000P | 1   |               |
| C500-02  | ECFA1EU4R7  | E. CAPACITOR 25V 4.7U     | 3   |               |
| C503-05  | ECFA1HW2R2S | E. CAPACITOR 50V 2.2U     | 3   |               |
| C506-08  | ECFA1EU101  | E. CAPACITOR 25V 100U     | 3   |               |

| Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| D1       | MA151WA      | DIODE                   | 1   |         |
| D2       | MA153        | DIODE                   | 1   |         |
| D3       | MA151K       | DIODE                   | 1   |         |
| D4, D5   | MA151WA      | DIODE                   | 2   |         |
| D7-D9    | MA151K       | DIODE                   | 3   |         |
| D10-13   | MA151K       | DIODE                   | 4   |         |
| D15      | MA151K       | DIODE                   | 1   |         |
| D16      | MA151WK      | DIODE                   | 1   |         |
| D17      | MA151WA      | DIODE                   | 1   |         |
| D18, 19  | MA151K       | DIODE                   | 2   |         |
| D20      | MA151WK      | DIODE                   | 1   |         |
| D500     | MA151K       | DIODE                   | 1   |         |
| D501-06  | 10E1         | DIODE                   | 6   |         |
| D507, 08 | MA151K       | DIODE                   | 2   |         |
| D509     | 10E1         | DIODE                   | 1   |         |
| D510     | MA151WK      | DIODE                   | 1   |         |
| D511     | MA3039-H     | DIODE                   | 1   |         |
| D512     | MA3075-H     | DIODE                   | 1   |         |
| D513     | MA3051-H     | DIODE                   | 1   |         |
| D514     | MA3056-H     | DIODE                   | 1   |         |
| D515     | MA3100-M     | DIODE                   | 1   |         |
|          |              |                         |     |         |
| IC1      | MC140248P    | IC                      | 1   |         |
| IC2      | MC34051M     | IC                      | 1   |         |
| IC3      | TMP284C43AF6 | IC                      | 1   |         |
| IC4      | UPD71054GB   | IC                      | 1   |         |
| IC5      | HD641802F8   | IC                      | 1   |         |
| IC6      | TL7706CP5B   | IC                      | 1   |         |
| IC7      | VS10738A     | IC                      | 1   |         |
| IC8, C9  | MC74HC541F   | IC                      | 2   |         |
| IC10     | MM221220     | IC                      | 1   |         |
| IC11     | VS10234      | IC                      | 1   |         |
| IC13     | MC74HC4536F  | IC                      | 1   |         |
| IC14     | MC74HC541F   | IC                      | 1   |         |
| IC15     | MC74HC245AF  | IC                      | 1   |         |
| IC16, 17 | MC74HC138AF  | IC                      | 2   |         |
| IC18     | MB89363BPF   | IC                      | 1   |         |
| IC19, 20 | MC14094BF    | IC                      | 2   |         |
| IC21     | MB89363BPF   | IC                      | 1   |         |
| IC24     | MC14013BF    | IC                      | 1   |         |
| IC25, 26 | MC14027BF    | IC                      | 2   |         |
| IC27-29  | MC14538BF    | IC                      | 3   |         |
| IC30     | MB621176PF   | IC                      | 1   |         |
| IC31     | MB89363BPF   | IC                      | 1   |         |
| IC34     | MC14094BF    | IC                      | 1   |         |
| IC35     | MB89363BPF   | IC                      | 1   |         |
| IC36-41  | MC14021BF    | IC                      | 6   |         |
| IC42     | MB89363BPF   | IC                      | 1   |         |
| IC43, 44 | MC14094BF    | IC                      | 2   |         |
| IC45     | MC14021BF    | IC                      | 1   |         |
| IC46     | MS0455-001SP | IC                      | 1   |         |
| IC47, 48 | MC14050BF    | IC                      | 2   |         |
| IC49     | SN74LS38NS   | IC                      | 1   |         |
| IC50, 51 | MC74HC132F   | IC                      | 2   |         |
| IC52     | MC74HC04AF   | IC                      | 1   |         |
| IC53, 54 | MC14049UBF   | IC                      | 2   |         |
| IC55     | MC74HC00AF   | IC                      | 1   |         |
| IC56     | MY4F32FP     | IC                      | 1   |         |
| IC57     | MM4030BS     | IC                      | 1   |         |
| IC58     | MC74HC541F   | IC                      | 1   |         |
| IC59     | LM2903M      | IC                      | 1   |         |
| IC60, 61 | NJM2901M     | IC                      | 2   |         |
| IC62     | MC74HC00AF   | IC                      | 1   |         |
| IC63     | MC74HC138AF  | IC                      | 1   |         |
| IC64, 65 | MC14021BF    | IC                      | 2   |         |
| IC66, 67 | MC14094BF    | IC                      | 2   |         |
| IC68     | MB89363BPF   | IC                      | 1   |         |
| IC69     | TC74HC190AF  | IC                      | 1   |         |
| IC71     | MC14538BF    | IC                      | 1   |         |
| IC72     | MC74HC66F    | IC                      | 1   |         |
| IC75     | MM4030BS     | IC                      | 1   |         |

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| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|-------------------------|-----|---------|
| R241-45  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 5   |         | SW3      | VSRO045     | SWITCH                  | 1   |         |
| R247     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | SW4-46   | EVQGEJ06K   | SWITCH                  | 3   |         |
| R248, 49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | SW7      | VSTO096     | SWITCH                  | 1   |         |
| R250     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |     |         |
| R251     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |          |             |                         |     |         |
| R252     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |     |         |
| R253     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | TP17-19  | VJR0646     | TEST POINT              | 3   |         |
| R254     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | TPCL, G2 | VJR0646     | TEST POINT              | 2   |         |
| R255     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |          |             |                         |     |         |
| R256     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |     |         |
| R257     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          |             |                         |     |         |
| R258     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | VC1      | ECV12W20X60 | V.CAPACITOR             | 20P | 1       |
| R259, 60 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |          |             |                         |     |         |
| R261     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |          |             |                         |     |         |
| R262     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |     |         |
| R263     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | X1       | VSM0373     | CRYSTAL OSCILLATOR      | 1   |         |
| R264, 65 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |          |             |                         |     |         |
| R266-68  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 3   |         |          |             |                         |     |         |
| R269     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |     |         |
| R270     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |          |             | MISCELLANEOUS           |     |         |
| R272-77  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 6   |         |          | VML2143     | CARD PULLER             | 1   |         |
| R278-85  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 8   |         |          | VML2144     | CARD PULLER             | 1   |         |
| R286     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          | VMS4174     | PIN                     | 4   |         |
| R287     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          | VM21546     | BARRIER                 | 1   |         |
| R288, 89 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |          | VSC3057     | SHIELD CASE             | 1   |         |
| R290     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          | VSC3058     | SHIELD CASE             | 1   |         |
| R291, 92 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |          | VSC3059     | SHIELD CASE             | 1   |         |
| R294     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          | VXA3967     | P.C.B. SHIELD PLATE     | 1   |         |
| R295     | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         |          | XNG26E      | NUT                     | 4   |         |
| R296     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          | XNG3ES      | NUT                     | 2   |         |
| R301     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |          | XSN3+6S     | SCREW                   | 2   |         |
| R302, 03 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         |          | XYNW3+K6FR  | SCREW                   | 4   |         |
| R304     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          | XYN26+C10   | SCREW                   | 1   |         |
| R502     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |          |             |                         |     |         |
| R504     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |          |             |                         |     |         |
| R505     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |     |         |
| R506     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |     |         |
| R507     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |     |         |
| R508     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |     |         |
| R509     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |     |         |
| R510     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |     |         |
| R511     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |     |         |
| R512     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |     |         |
| R513     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |          |             |                         |     |         |
| R514     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |     |         |
| R515     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |     |         |
| R516     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |     |         |
| R517     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |     |         |
| R518     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |     |         |
| R519     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |     |         |
| R520     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |     |         |
| R521     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |     |         |
| R522     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |          |             |                         |     |         |
| R523     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |     |         |
| R524     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |     |         |
| R525     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |     |         |
| R526     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |     |         |
| R527     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |     |         |
| R528     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |     |         |
| R529     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |     |         |
| R530     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |     |         |
| R531, 32 | ERX1S11R0   | M.RESISTOR 1W            | 1   |         |          |             |                         |     |         |
| R533     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |     |         |
| R536     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |          |             |                         |     |         |
| R537     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |          |             |                         |     |         |
| R538     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |     |         |
| R539     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |     |         |
| R540     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |     |         |
| R541     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |     |         |
| R542     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |          |             |                         |     |         |
| R543     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |          |             |                         |     |         |
|          |             |                          |     |         |          |             |                         |     |         |
|          |             |                          |     |         |          |             |                         |     |         |
|          |             |                          |     |         |          |             |                         |     |         |
|          |             |                          |     |         |          |             |                         |     |         |
| SW1      | VSS0223     | SWITCH                   | 1   |         |          |             |                         |     |         |
|          |             |                          |     |         |          |             |                         |     |         |
|          |             |                          |     |         |          |             |                         |     |         |

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| Ref.No. | Part No.      | Part Name & Description            | Pcs | Remarks         |
|---------|---------------|------------------------------------|-----|-----------------|
|         | VEP82062A     | P.C. BOARD W/COMPONENT<br>AT POWER |     | FOR AU-63-P,E,B |
|         |               | CAPACITORS                         |     |                 |
| C1      | ECEA1VU330    | E. CAPACITOR 35V 33U               | 1   |                 |
| C2      | ECEA1EU221    | E. CAPACITOR 25V 220U              | 1   |                 |
| C3      | ECEA1VU330    | E. CAPACITOR 35V 33U               | 1   |                 |
| C4      | ECUM1H103ZF   | C. CAPACITOR CH 50V 0.01U          | 1   |                 |
| C5      | ECUM1H103KBN  | C. CAPACITOR CH 50V 0.01U          | 1   |                 |
| C6      | ECUM1H103KBN  | C. CAPACITOR CH 50V 1000P          | 1   |                 |
| C7      | ECUM1H103KBN  | C. CAPACITOR CH 50V 0.01U          | 1   |                 |
| C8, C9  | ECM1H10H103JR | C. CAPACITOR 50V 0.01U             | 2   |                 |
| C10, 11 | ECM1H10H103JR | C. CAPACITOR 50V 0.01U             | 2   |                 |
| C12-19  | ECQMH183JF    | P. CAPACITOR 50V 0.018U            | 8   |                 |
| C20, 21 | ECCD2H331J    | C. CAPACITOR 500V 330P             | 2   |                 |
| C22-27  | ECEA1VU330    | E. CAPACITOR 35V 33U               | 6   |                 |
| C28     | ECEA1EU331    | E. CAPACITOR 25V 330U              | 1   |                 |
| C29     | ECEA1CU100    | E. CAPACITOR 16V 10U               | 1   |                 |
| C30-33  | ECUM1H103KBN  | C. CAPACITOR CH 50V 0.01U          | 4   |                 |
|         |               |                                    |     |                 |
| CN350   | WPI511T       | CONNECTOR (MALE)                   | 1   |                 |
|         |               |                                    |     |                 |
| D1, D2  | 10E1          | DIODE                              | 2   |                 |
| D3      | NA151K        | DIODE                              | 1   |                 |
| D4, D5  | RP1H          | DIODE                              | 2   |                 |
| D6, D7  | ER2007BK361B  | SURGE ABSORBER 360V                | 2   |                 |
|         |               |                                    |     |                 |
| IC1     | UPC494G       | IC                                 | 1   |                 |
| IC2, C5 | UPC4558G      | IC                                 | 2   |                 |
| IC4, C5 | ACR0111       | IC                                 | 2   |                 |
|         |               |                                    |     |                 |
| L1      | VLQ0128       | COIL 47UH                          | 1   |                 |
| L2-15   | VLQ0105F101K  | COIL 100UH                         | 4   |                 |
|         |               |                                    |     |                 |
| P1      | WPI1143       | CONNECTOR (MALE)                   | 1   |                 |
|         |               |                                    |     |                 |
| Q1      | UN2213        | TRANSISTOR-RESISTOR                | 1   |                 |
| Q2      | UN2113        | TRANSISTOR-RESISTOR                | 1   |                 |
| Q3      | 2SB709        | TRANSISTOR CHIP                    | 1   |                 |
| Q4, Q5  | 2SK742        | TRANSISTOR                         | 2   |                 |
|         |               |                                    |     |                 |
|         |               | RESISTORS                          |     |                 |
| R1      | ER050CHD1004  | M. RESISTOR 1/2W 1M                | 1   |                 |
| R2      | ERJ6GEYG223   | M. RESISTOR CH 1/10W 22K           | 1   |                 |
| R3      | ERJ6GEYJ103   | M. RESISTOR CH 1/10W 10K           | 1   |                 |
| R4      | ERJ6GEYJ104   | M. RESISTOR CH 1/10W 100K          | 1   |                 |
| R5      | ERJ6GEYJ103   | M. RESISTOR CH 1/10W 10K           | 1   |                 |
| R6      | ERJ6GEYG682   | M. RESISTOR CH 1/10W 6.8K          | 1   |                 |
| R7      | ERJ6GEYG332   | M. RESISTOR CH 1/10W 3.3K          | 1   |                 |
| R8      | ERJ6GEYG223   | M. RESISTOR CH 1/10W 22K           | 1   |                 |
| R9      | ERJ6GEYJ222   | M. RESISTOR CH 1/10W 2.2K          | 1   |                 |
| R10     | ERJ6GEYG103   | M. RESISTOR CH 1/10W 10K           | 1   |                 |
| R11     | ERJ6GEYG202   | M. RESISTOR CH 1/10W 2K            | 1   |                 |
| R12, 13 | ERJ6GEYJ101   | M. RESISTOR CH 1/10W 100           | 2   |                 |

| Ref.No.  | Part No.     | Part Name & Description                    | Pcs | Remarks         |
|----------|--------------|--|-----|-----------------|
| R14, 15  | ERQ12AJR2P   | F. RESISTOR 1/2W 2.2                       | 2   |                 |
| R16      | ERJ6GEYG622  | M. RESISTOR CH 1/10W 6.2K                  | 1   |                 |
| R17      | ERJ6GEYG332  | M. RESISTOR CH 1/10W 3.3K                  | 1   |                 |
| R18-21   | ER025CHD5103 | M. RESISTOR 1/4W 510K                      | 4   |                 |
| R22      | ERJ6GEYG123  | M. RESISTOR CH 1/10W 12K                   | 1   |                 |
| R23, 24  | ERD25TJ474   | C. RESISTOR 1/4W 470K                      | 2   |                 |
| R25      | ERSB27G222   | THERMISTOR 2.2K                            | 1   |                 |
| R26      | ERJ6GEYG621  | M. RESISTOR CH 1/10W 620                   | 1   |                 |
| R27      | ERJ6GEYG272  | M. RESISTOR CH 1/10W 2.7K                  | 1   |                 |
| R28-31   | ERJ6GEYG133  | M. RESISTOR CH 1/10W 13K                   | 4   |                 |
| R32      | ERSB27G222   | THERMISTOR 2.2K                            | 1   |                 |
| R33      | ERJ6GEYG621  | M. RESISTOR CH 1/10W 620                   | 1   |                 |
| R34      | ERJ6GEYG272  | M. RESISTOR CH 1/10W 2.7K                  | 1   |                 |
| R35-38   | ERJ6GEYG133  | M. RESISTOR CH 1/10W 13K                   | 4   |                 |
| R39      | ERJ6GEYG153  | M. RESISTOR CH 1/10W 15K                   | 1   |                 |
| R40      | ERJ6GEYJ153  | M. RESISTOR CH 1/10W 15K                   | 1   |                 |
| R41      | ER025CKF8253 | M. RESISTOR 1/4W 825K                      | 1   |                 |
| R42      | ER025CKF6813 | M. RESISTOR 1/4W 681K                      | 1   |                 |
| R43      | ERJ6GEY473   | M. RESISTOR CH 1/10W 47K                   | 1   |                 |
| R44      | ERD25TJ103   | C. RESISTOR 1/4W 10K                       | 1   |                 |
| R45      | ERJ6GEYG153  | M. RESISTOR CH 1/10W 15K                   | 1   |                 |
| R46      | ERJ6GEYJ153  | M. RESISTOR CH 1/10W 15K                   | 1   |                 |
| R47      | ER025CKF8253 | M. RESISTOR 1/4W 825K                      | 1   |                 |
| R48      | ER025CKF6813 | M. RESISTOR 1/4W 681K                      | 1   |                 |
| R49      | ERJ6GEY473   | M. RESISTOR CH 1/10W 47K                   | 1   |                 |
| R50      | ERD25TJ103   | C. RESISTOR 1/4W 10K                       | 1   |                 |
| R51      | ERJ6GEYG682  | M. RESISTOR CH 1/10W 6.8K                  | 1   |                 |
|          |              |  |     |                 |
| T1       | VLTO537      | TRANSFORMER                                | 1   |                 |
|          |              |  |     |                 |
| TP1-P9   | VJR0646      | TEST POINT                                 | 9   |                 |
| TP10     | VJR0646      | TEST POINT                                 | 1   |                 |
| TPG1     | VJR0646      | TEST POINT                                 | 1   |                 |
|          |              |  |     |                 |
| VR1      | VRV0109B504  | V. RESISTOR 500K                           | 1   |                 |
| VR2, R3  | VRV0109B503  | V. RESISTOR 50K                            | 2   |                 |
|          |              |  |     |                 |
|          |              | MISCELLANEOUS                              |     |                 |
|          | VNF2738      | P.C.B. HOLDER ANGLE                        | 1   |                 |
|          | VSC2298      | SHIELD CASE                                | 1   |                 |
|          | VSC2299      | SHIELD COVER                               | 1   |                 |
|          | VSC3407      | SHIELD BOARD                               | 1   |                 |
|          | XTV3-6F      | SCREW                                      | 2   |                 |
|          |              |  |     |                 |
|          |              |  |     |                 |
|          | VEP84094A    | P.C. BOARD W/COMPONENT<br>AUDIO IN/OUT     |     | FOR AU-65-P,E,B |
|          | VEP80573A    | P.C. BOARD W/COMPONENT<br>AUDIO IN/OUT SUB |     | ON VEP84094A    |
|          |              |  |     |                 |
|          |              |  |     |                 |
|          |              | CAPACITORS                                 |     |                 |
| C1       | ECUM1H470JCN | C. CAPACITOR CH 50V 47P                    | 1   |                 |
| C2       | ECUM1H4732FN | C. CAPACITOR CH 50V 0.047U                 | 1   |                 |
| C5       | ECUM1H470JCN | C. CAPACITOR CH 50V 47P                    | 1   |                 |
| C6       | ECUM1H4732FN | C. CAPACITOR CH 50V 0.047U                 | 1   |                 |
| C101     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P                  | 1   |                 |
| C102, 03 | ECEA1CB2100  | E. CAPACITOR 16V 10U                       | 2   |                 |
| C104, 05 | ECUM1H330JCN | C. CAPACITOR CH 50V 33P                    | 2   |                 |
| C106     | ECEA1CB2470  | E. CAPACITOR 16V 47U                       | 1   |                 |
| C107     | ECEA1CF2101  | E. CAPACITOR 16V 100U                      | 1   |                 |

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| Ref.No. | Part No.     | Part Name & Description | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description | Pcs | Remarks     |
|---------|--------------|-------------------------|-----|---------|---------|-------------|-------------------------|-----|-------------|
|         |              | CAPACITORS              |     |         |         |             |                         |     |             |
| C2      | ECFA1CB2100  | E.CAPACITOR 16V 10U     | 1   |         |         | VEFO0E72A   | P.C. BOARD W/COMPONENT  |     |             |
| C4      | ECFA1CB2100  | E.CAPACITOR 16V 10U     | 1   |         |         |             | CASSETTE CARRIAGE LAMP  |     |             |
| C5-C8   | ECFA1CF2101  | E.CAPACITOR 16V 100U    | 4   |         |         |             |                         |     |             |
|         |              |                         |     |         |         |             | MISCELLANEOUS           |     |             |
| CN160   | WJP1234T     | CONNECTOR(MALE) 7P      | 1   |         |         | VLD019      | PILOT LAMP              | 3   |             |
| CN162   | WJP1235T     | CONNECTOR(MALE) 8P      | 1   |         |         |             |                         |     |             |
| CN163   | WJP1931T     | CONNECTOR(MALE)         | 1   |         |         |             |                         |     |             |
|         |              |                         |     |         |         |             |                         |     |             |
| IC1,C2  | NJM4558D     | IC                      | 2   |         |         | VEFO0E30A   | P.C. BOARD W/COMPONENT  |     |             |
| IC3     | AN78N09      | IC                      | 1   |         |         |             | CASSETTE DETECT         |     |             |
| IC4     | AN79N09      | IC                      | 1   |         |         |             |                         |     |             |
|         |              |                         |     |         |         |             | MISCELLANEOUS           |     |             |
|         |              | RESISTORS               |     |         |         | CN1110-R    | PHOTO INTERRUPTER       | 1   |             |
| R7      | ERDS2TJ103   | C.RESISTOR 1/4W 10K     | 1   |         |         |             |                         |     |             |
| R8      | ERDS2TJ102   | C.RESISTOR 1/4W 1K      | 1   |         |         |             |                         |     |             |
| R9      | ERDS2TJ104   | C.RESISTOR 1/4W 100K    | 1   |         |         |             |                         |     |             |
| R10,11  | ERDS2TJ102   | C.RESISTOR 1/4W 1K      | 2   |         |         |             |                         |     |             |
| R12     | ERDS2TJ104   | C.RESISTOR 1/4W 100K    | 1   |         |         |             |                         |     |             |
| R19     | ERDS2TJ103   | C.RESISTOR 1/4W 10K     | 1   |         |         | VEP80422B   | P.C. BOARD W/COMPONENT  |     |             |
| R20     | ERDS2TJ102   | C.RESISTOR 1/4W 1K      | 1   |         |         |             | EJECT INTERFACE         |     |             |
| R21     | ERDS2TJ104   | C.RESISTOR 1/4W 100K    | 1   |         |         |             |                         |     |             |
| R22,23  | ERDS2TJ102   | C.RESISTOR 1/4W 1K      | 2   |         |         |             |                         |     |             |
| R24     | ERDS2TJ104   | C.RESISTOR 1/4W 100K    | 1   |         |         |             |                         |     |             |
|         |              |                         |     |         | P112    | WJP1188     | CONNECTOR (MALE)        | 1   |             |
|         |              |                         |     |         | P115    | WJP1188     | CONNECTOR (MALE)        | 1   |             |
| SW1     | VSS0305      | SWITCH                  | 1   |         |         |             |                         |     |             |
|         |              |                         |     |         |         |             |                         |     |             |
| VR3     | VRV0109B502  | V.RESISTOR 5K           | 1   |         |         |             |                         |     |             |
| VR4     | EVU013020A14 | V.RESISTOR 10K          | 1   |         |         | VEP80232A   | P.C. BOARD W/COMPONENT  |     |             |
| VR7     | VRV0109B502  | V.RESISTOR 5K           | 1   |         |         |             | EJECT SW                |     |             |
| VR8     | EVU013020A14 | V.RESISTOR 10K          | 1   |         |         |             |                         |     |             |
| VR11    | ERDS2TJ273   | C.RESISTOR 1/4W 27K     | 1   |         |         |             |                         |     |             |
|         |              |                         |     |         |         |             |                         |     |             |
|         |              | MISCELLANEOUS           |     |         |         |             |                         |     |             |
|         | WVF2605      | P.C.B. HOLDER ANGLE     | 1   |         | LED1    | VLD0024     | LED                     | 1   |             |
|         |              |                         |     |         |         |             |                         |     |             |
|         |              |                         |     |         |         |             | RESISTORS               |     |             |
|         | VEFO0E08C    | P.C. BOARD W/COMPONENT  |     |         | R1      | ERDS2TJ271  | C.RESISTOR 1/4W 270     | 1   |             |
|         |              | AUTO OFF LED            |     |         |         |             |                         |     |             |
|         |              |                         |     |         | SW1     | VSP0221     | SWITCH                  | 1   |             |
|         |              |                         |     |         |         |             |                         |     |             |
| LED1    | VLD0029      | LED                     | 1   |         |         |             |                         |     |             |
|         |              |                         |     |         |         | VEP80553A   | P.C. BOARD W/COMPONENT  |     | FOR AU-55-P |
|         |              |                         |     |         |         |             | FRONT INTERFACE         |     |             |
| P113    | WJP1141      | CONNECTOR(MALE) 2P      | 1   |         |         |             |                         |     |             |
|         |              |                         |     |         |         |             |                         |     |             |
|         |              | RESISTORS               |     |         |         |             |                         |     |             |
| R1      | ERDS2TJ390   | C.RESISTOR 1/4W 39      | 1   |         |         |             |                         |     |             |
|         |              |                         |     |         |         |             |                         |     |             |
|         |              |                         |     |         |         |             | CAPACITORS              |     |             |
|         |              |                         |     |         | C1-C9   | ECXPIH103ZF | C.CAPACITOR 50V 0.01U   | 9   |             |

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| Ref.No.  | Part No.    | Part Name & Description | Pcs | Remarks |
|----------|-------------|-------------------------|-----|---------|
| C10-13   | ECF1H1032F  | C. CAPACITOR 50V 0.01U  | 4   |         |
| C15,16   | ECF1H1032F  | C. CAPACITOR 50V 0.01U  | 2   |         |
| C17-22   | ECF1H1032F  | C. CAPACITOR 50V 0.01U  | 6   |         |
| C23      | ECQV1H104JZ | P. CAPACITOR 50V 0.1U   | 1   |         |
| C24      | ECF1H1032F  | C. CAPACITOR 50V 390P   | 1   |         |
| C25      | ECFA1CU101  | E. CAPACITOR 16V 100U   | 1   |         |
| C26      | ECF1H1032F  | C. CAPACITOR 50V 0.01U  | 1   |         |
| C27      | ECFA1CU101  | E. CAPACITOR 16V 100U   | 1   |         |
| C28      | ECF1H1032F  | C. CAPACITOR 50V 0.01U  | 1   |         |
| C29      | ECFA1CU330  | E. CAPACITOR 16V 33U    | 1   |         |
| C30      | ECF1H1032F  | C. CAPACITOR 50V 0.01U  | 1   |         |
| C33-35   | ECFA1CU101  | E. CAPACITOR 16V 100U   | 3   |         |
| C101     | ECQV1H274JZ | P. CAPACITOR 50V 0.27U  | 1   |         |
| C102     | ECFA1CU100  | E. CAPACITOR 16V 10U    | 1   |         |
| C103     | ECFA1HU4R7  | E. CAPACITOR 50V 4.7U   | 1   |         |
| C104     | ECQV1H274JZ | P. CAPACITOR 50V 0.27U  | 1   |         |
| C105     | ECFA1CU100  | E. CAPACITOR 16V 10U    | 1   |         |
| C106     | ECFA1HU4R7  | E. CAPACITOR 50V 4.7U   | 1   |         |
| C107     | ECQV1H274JZ | P. CAPACITOR 50V 0.27U  | 1   |         |
| C108     | ECFA1CU100  | E. CAPACITOR 16V 10U    | 1   |         |
| C109     | ECFA1HU4R7  | E. CAPACITOR 50V 4.7U   | 1   |         |
| C110     | ECQV1H274JZ | P. CAPACITOR 50V 0.27U  | 1   |         |
| C111     | ECFA1CU100  | E. CAPACITOR 16V 10U    | 1   |         |
| C112     | ECFA1HU4R7  | E. CAPACITOR 50V 4.7U   | 1   |         |
| C113,14  | ECFA1CB2100 | E. CAPACITOR 16V 10U    | 2   |         |
| C115-18  | ECFA1CF2101 | E. CAPACITOR 16V 100U   | 4   |         |
|          |             |                         |     |         |
| CN130    | WJP1931T    | CONNECTOR (MALE)        | 1   |         |
| CN131    | WJP1239T    | CONNECTOR (MALE) 12P    | 1   |         |
| CN132    | WJP1237T    | CONNECTOR (MALE) 10P    | 1   |         |
| CN133    | WJP1237R    | CONNECTOR (MALE) 10P    | 1   |         |
| CN134    | WJP1931T    | CONNECTOR (MALE)        | 1   |         |
| CN135    | WJP1235T    | CONNECTOR (MALE) 6P     | 1   |         |
| CN136    | WJP1932T    | CONNECTOR (MALE)        | 1   |         |
| CN137    | WJP1232T    | CONNECTOR (MALE) 5P     | 1   |         |
| CN138    | WJP1237T    | CONNECTOR (MALE) 10P    | 1   |         |
| CN139    | WJP1234T    | CONNECTOR (MALE) 7P     | 1   |         |
|          |             |                         |     |         |
| D1       | MA165       | DIODE                   | 1   |         |
| D6       | MA165       | DIODE                   | 1   |         |
| D101-08  | QA95        | DIODE                   | 8   |         |
|          |             |                         |     |         |
| IC1-CS   | MC14053BCP  | IC                      | 3   |         |
| IC4, CS  | MC14021BCP  | IC                      | 2   |         |
| IC6      | MC14050BCP  | IC                      | 1   |         |
| IC7      | AN78L12     | IC                      | 1   |         |
| IC8      | AN79L12     | IC                      | 1   |         |
| IC9      | AN79L05     | IC                      | 1   |         |
| IC101-03 | NJM4558D    | IC                      | 3   |         |
| IC104    | AN78L09     | IC                      | 1   |         |
| IC105    | AN79L09     | IC                      | 1   |         |
|          |             |                         |     |         |
| P150     | WJP2891A020 | CONNECTOR (MALE)        | 1   |         |
|          |             |                         |     |         |
| Q1       | UN1212      | TRANSISTOR-RESISTOR     | 1   |         |
| Q2       | UN1213      | TRANSISTOR-RESISTOR     | 1   |         |
| Q3,4     | 2SD636      | TRANSISTOR              | 2   |         |
| Q101     | 2SD636      | TRANSISTOR              | 1   |         |
| Q102     | 2SD1330     | TRANSISTOR              | 1   |         |
| Q103     | 2SD636      | TRANSISTOR              | 1   |         |
| Q104     | 2SD1330     | TRANSISTOR              | 1   |         |
| Q105     | 2SD636      | TRANSISTOR              | 1   |         |
| Q106     | 2SD1330     | TRANSISTOR              | 1   |         |
| Q107     | 2SD636      | TRANSISTOR              | 1   |         |
| Q108     | 2SD1330     | TRANSISTOR              | 1   |         |

| Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
|          |              | RESISTORS               |     |         |
| R7,R8    | ERDS2TJ223   | C. RESISTOR 1/4W 22K    | 2   |         |
| R9       | ERDS2TJ103   | C. RESISTOR 1/4W 10K    | 1   |         |
| R10-16   | ERDS2TJ103   | C. RESISTOR 1/4W 10K    | 7   |         |
| R25-32   | ERDS2TJ103   | C. RESISTOR 1/4W 10K    | 8   |         |
| R33,34   | ERDS2TJ223   | C. RESISTOR 1/4W 22K    | 2   |         |
| R35      | ERDS2TJ102   | C. RESISTOR 1/4W 1K     | 1   |         |
| R36      | ERDS2TJ474   | C. RESISTOR 1/4W 470K   | 1   |         |
| R37      | ERDS2TJ103   | C. RESISTOR 1/4W 10K    | 1   |         |
| R38,39   | ERDS2TJ223   | C. RESISTOR 1/4W 22K    | 2   |         |
| R40      | ERDS2TJ474   | C. RESISTOR 1/4W 470K   | 1   |         |
| R41      | ERDS2TJ103   | C. RESISTOR 1/4W 10K    | 1   |         |
| R42      | ERDS2TJ223   | C. RESISTOR 1/4W 22K    | 1   |         |
| R45-48   | ERDS2TJ103   | C. RESISTOR 1/4W 10K    | 4   |         |
| R72,73   | ERDS2TJ223   | C. RESISTOR 1/4W 22K    | 2   |         |
| R101     | ERDS2TJ682   | C. RESISTOR 1/4W 6.8K   | 1   |         |
| R102,03  | ERDS2TJ223   | C. RESISTOR 1/4W 22K    | 2   |         |
| R104     | ERDS2TJ221   | C. RESISTOR 1/4W 220    | 1   |         |
| R105     | ERDS2TJ222   | C. RESISTOR 1/4W 2.2K   | 1   |         |
| R106,07  | ERDS2TJ103   | C. RESISTOR 1/4W 10K    | 1   |         |
| R108     | ERDS2TJ682   | C. RESISTOR 1/4W 6.8K   | 1   |         |
| R109,10  | ERDS2TJ223   | C. RESISTOR 1/4W 22K    | 2   |         |
| R111     | ERDS2TJ221   | C. RESISTOR 1/4W 220    | 1   |         |
| R112     | ERDS2TJ222   | C. RESISTOR 1/4W 2.2K   | 1   |         |
| R113,14  | ERDS2TJ103   | C. RESISTOR 1/4W 10K    | 2   |         |
| R115     | ERDS2TJ682   | C. RESISTOR 1/4W 6.8K   | 1   |         |
| R116,17  | ERDS2TJ223   | C. RESISTOR 1/4W 22K    | 2   |         |
| R118     | ERDS2TJ221   | C. RESISTOR 1/4W 220    | 1   |         |
| R119     | ERDS2TJ222   | C. RESISTOR 1/4W 2.2K   | 1   |         |
| R120,21  | ERDS2TJ103   | C. RESISTOR 1/4W 10K    | 2   |         |
| R122     | ERDS2TJ682   | C. RESISTOR 1/4W 6.8K   | 1   |         |
| R123,24  | ERDS2TJ223   | C. RESISTOR 1/4W 22K    | 2   |         |
| R125     | ERDS2TJ221   | C. RESISTOR 1/4W 220    | 1   |         |
| R126     | ERDS2TJ222   | C. RESISTOR 1/4W 2.2K   | 1   |         |
| R127-29  | ERDS2TJ103   | C. RESISTOR 1/4W 10K    | 3   |         |
| R130     | ERDS2TJ102   | C. RESISTOR 1/4W 1K     | 1   |         |
| R131     | ERDS2TJ104   | C. RESISTOR 1/4W 100K   | 1   |         |
| R132     | ERDS2TJ102   | C. RESISTOR 1/4W 1K     | 1   |         |
| R133     | ERDS2TJ562   | C. RESISTOR 1/4W 5.6K   | 1   |         |
| R134     | ERDS2TJ104   | C. RESISTOR 1/4W 100K   | 1   |         |
| R135     | ERDS2TJ103   | C. RESISTOR 1/4W 10K    | 1   |         |
| R136     | ERDS2TJ102   | C. RESISTOR 1/4W 1K     | 1   |         |
| R137     | ERDS2TJ104   | C. RESISTOR 1/4W 100K   | 1   |         |
| R138     | ERDS2TJ102   | C. RESISTOR 1/4W 1K     | 1   |         |
| R139     | ERDS2TJ562   | C. RESISTOR 1/4W 5.6K   | 1   |         |
| R140     | ERDS2TJ104   | C. RESISTOR 1/4W 100K   | 1   |         |
|          |              |                         |     |         |
| RA1,A2   | EXBP9E103J   | COMBI. R-R              | 10K | 2       |
|          |              |                         |     |         |
| SW1-W5   | VSS0119      | SWITCH                  | 5   |         |
| SW6      | VSS0243      | SWITCH                  | 1   |         |
| SW7-11   | VSS0119      | SWITCH                  | 5   |         |
|          |              |                         |     |         |
| VR8      | EVUF2AE20B53 | V. RESISTOR             | 5K  | 1       |
| VR9      | VRV0109B502  | V. RESISTOR             | 5K  | 1       |
| VR10,11  | EVUF2AE20A14 | V. RESISTOR             | 10K | 2       |
| VR12,13  | VRV0109B502  | V. RESISTOR             | 5K  | 2       |
| VR101-04 | VRV01106203  | V. RESISTOR             | 5K  | 4       |
|          |              |                         |     |         |
|          |              | MISCELLANEOUS           |     |         |
|          | VME2600      | P.C.B. HOLDER ANGLE     | 1   |         |
|          | KTV3+6F      | SCREW                   | 2   |         |

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| Ref.No. | Part No.   | Part Name & Description | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description | Pcs | Remarks |
|---------|------------|-------------------------|-----|---------|---------|-------------|-------------------------|-----|---------|
| R72,73  | ERDS2TJ223 | C.RESISTOR 1/4W 22K     | 2   |         | C15     | ECKFIH1032F | C.CAPACITOR 50V 0.01U   | 1   |         |
| R101    | ERDS2TJ682 | C.RESISTOR 1/4W 6.8K    | 1   |         | C17-22  | ECKFIH1032F | C.CAPACITOR 50V 0.01U   | 6   |         |
| R102,03 | ERDS2TJ223 | C.RESISTOR 1/4W 22K     | 2   |         | C23     | ECQV1H204J2 | P.CAPACITOR 50V 0.1U    | 1   |         |
| R104    | ERDS2TJ221 | C.RESISTOR 1/4W 220     | 1   |         | C24     | ECKFIH391KB | C.CAPACITOR 50V 390P    | 1   |         |
| R105    | ERDS2TJ222 | C.RESISTOR 1/4W 2.2K    | 1   |         | C25     | ECEA1CU101  | E.CAPACITOR 16V 100U    | 1   |         |
| R106,07 | ERDS2TJ103 | C.RESISTOR 1/4W 10K     | 2   |         | C26     | ECKFIH1032F | C.CAPACITOR 50V 0.01U   | 1   |         |
| R108    | ERDS2TJ682 | C.RESISTOR 1/4W 6.8K    | 1   |         | C27     | ECEA1CU101  | E.CAPACITOR 16V 100U    | 1   |         |
| R109,10 | ERDS2TJ223 | C.RESISTOR 1/4W 22K     | 2   |         | C28     | ECKFIH1032F | C.CAPACITOR 50V 0.01U   | 1   |         |
| R111    | ERDS2TJ221 | C.RESISTOR 1/4W 220     | 1   |         | C29     | ECEA1CU330  | E.CAPACITOR 16V 33U     | 1   |         |
| R112    | ERDS2TJ222 | C.RESISTOR 1/4W 2.2K    | 1   |         | C30     | ECKFIH1032F | C.CAPACITOR 50V 0.01U   | 1   |         |
| R113,14 | ERDS2TJ103 | C.RESISTOR 1/4W 10K     | 2   |         | C33-35  | ECEA1CU101  | E.CAPACITOR 16V 100U    | 3   |         |
| R115    | ERDS2TJ682 | C.RESISTOR 1/4W 6.8K    | 1   |         | C101    | ECQV1H274J2 | P.CAPACITOR 50V 0.27U   | 1   |         |
| R116,17 | ERDS2TJ223 | C.RESISTOR 1/4W 22K     | 2   |         | C102    | ECEA1CU100  | E.CAPACITOR 16V 10U     | 1   |         |
| R118    | ERDS2TJ221 | C.RESISTOR 1/4W 220     | 1   |         | C103    | ECEA1HU4R7  | E.CAPACITOR 50V 4.7U    | 1   |         |
| R119    | ERDS2TJ222 | C.RESISTOR 1/4W 2.2K    | 1   |         | C104    | ECQV1H274J2 | P.CAPACITOR 50V 0.27U   | 1   |         |
| R120,21 | ERDS2TJ103 | C.RESISTOR 1/4W 10K     | 2   |         | C105    | ECEA1CU100  | E.CAPACITOR 16V 10U     | 1   |         |
| R122    | ERDS2TJ682 | C.RESISTOR 1/4W 6.8K    | 1   |         | C106    | ECEA1HU4R7  | E.CAPACITOR 50V 4.7U    | 1   |         |
| R123,24 | ERDS2TJ223 | C.RESISTOR 1/4W 22K     | 2   |         | C107    | ECQV1H274J2 | P.CAPACITOR 50V 0.27U   | 1   |         |
| R125    | ERDS2TJ221 | C.RESISTOR 1/4W 220     | 1   |         | C108    | ECEA1CU100  | E.CAPACITOR 16V 10U     | 1   |         |
| R126    | ERDS2TJ222 | C.RESISTOR 1/4W 2.2K    | 1   |         | C109    | ECEA1HU4R7  | E.CAPACITOR 50V 4.7U    | 1   |         |
| R127-29 | ERDS2TJ103 | C.RESISTOR 1/4W 10K     | 3   |         | C110    | ECQV1H274J2 | P.CAPACITOR 50V 0.27U   | 1   |         |
| R130    | ERDS2TJ102 | C.RESISTOR 1/4W 1K      | 1   |         | C111    | ECEA1CU100  | E.CAPACITOR 16V 10U     | 1   |         |
| R131    | ERDS2TJ104 | C.RESISTOR 1/4W 100K    | 1   |         | C112    | ECEA1HU4R7  | E.CAPACITOR 50V 4.7U    | 1   |         |
| R132    | ERDS2TJ102 | C.RESISTOR 1/4W 1K      | 1   |         | C113,14 | ECEA1CB2100 | E.CAPACITOR 16V 10U     | 2   |         |
| R133    | ERDS2TJ562 | C.RESISTOR 1/4W 5.6K    | 1   |         | C115-18 | ECEA1CP2101 | E.CAPACITOR 16V 100U    | 4   |         |
| R134    | ERDS2TJ104 | C.RESISTOR 1/4W 100K    | 1   |         |         |             |                         |     |         |
| R135    | ERDS2TJ103 | C.RESISTOR 1/4W 10K     | 1   |         |         |             |                         |     |         |
| R136    | ERDS2TJ102 | C.RESISTOR 1/4W 1K      | 1   |         |         |             |                         |     |         |
| R137    | ERDS2TJ104 | C.RESISTOR 1/4W 100K    | 1   |         | CN130   | VJPI931T    | CONNECTOR (MALE)        | 1   |         |
| R138    | ERDS2TJ102 | C.RESISTOR 1/4W 1K      | 1   |         | CN131   | VJPI239T    | CONNECTOR (MALE) 12P    | 1   |         |
| R139    | ERDS2TJ562 | C.RESISTOR 1/4W 5.6K    | 1   |         | CN132   | VJPI237T    | CONNECTOR (MALE) 10P    | 1   |         |
| R140    | ERDS2TJ104 | C.RESISTOR 1/4W 100K    | 1   |         | CN133   | VJPI237R    | CONNECTOR (MALE) 10P    | 1   |         |
|         |            |                         |     |         | CN134   | VJPI931T    | CONNECTOR (MALE)        | 1   |         |
|         |            |                         |     |         | CN135   | VJPI233T    | CONNECTOR (MALE) 6P     | 1   |         |
|         |            |                         |     |         | CN136   | VJPI932T    | CONNECTOR (MALE)        | 1   |         |
|         |            |                         |     |         | CN137   | VJPI232T    | CONNECTOR (MALE) 5P     | 1   |         |
|         |            |                         |     |         | CN138   | VJPI237T    | CONNECTOR (MALE) 10P    | 1   |         |
|         |            |                         |     |         | CN139   | VJPI234T    | CONNECTOR (MALE) 7P     | 1   |         |
|         |            |                         |     |         |         |             |                         |     |         |
|         |            |                         |     |         |         |             |                         |     |         |
|         |            |                         |     |         |         |             |                         |     |         |
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|         |            |                         |     |         |         |             |                         |     |         |
|         |            |                         |     |         |         |             |                         |     |         |
|         |            |                         |     |         |         |             |                         |     |         |
|         |            |                         |     |         |         |             |                         |     |         |
|         |            |                         |     |         |         |             |                         |     |         |
|         |            |                         |     |         |         |             |                         |     |         |
|         |            | </                      |     |         |         |             |                         |     |         |

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| Ref.No.    | Part No.     | Part Name & Description                | Pcs | Remarks |
|------------|--------------|--|-----|---------|
|            |              |  |     |         |
|            |              |  |     |         |
|            | VEP61042A    | P.C. BOARD W/COMPONENT<br>POWER FILTER |     |         |
|            |              |  |     |         |
|            |              |  |     |         |
|            |              | CAPACITORS                             |     |         |
| C2         | ECQU2A224M   | P. CAPACITOR 250V 0.22U                | 1   |         |
| C3-C5      | VCK0083      | C. CAPACITOR 3300P                     | 4   |         |
| C7         | ECQU2A224M   | P. CAPACITOR 250V 0.22U                | 1   |         |
|            |              |  |     |         |
|            |              |  |     |         |
| F1         | XBA1C63ND100 | FUSE A                                 | 1   |         |
|            |              |  |     |         |
|            |              |  |     |         |
| L1         | VLF0873      | COIL                                   | 1   |         |
|            |              |  |     |         |
|            |              |  |     |         |
| POWER20-22 | VJP2638      | CONNECTOR (MALE)                       | 3   |         |
|            |              |  |     |         |
|            |              |  |     |         |
|            |              | MISCELLANEOUS                          |     |         |
|            | VJF0318      | HOLDER                                 | 2   |         |
|            | VM20730      | BARRIER                                | 4   |         |
|            |              |  |     |         |
|            |              |  |     |         |
|            |              |  |     |         |
|            | VEP61058A    | P.C. BOARD W/COMPONENT<br>POWER FILTER |     |         |
|            |              |  |     |         |
|            |              |  |     |         |
|            |              |  |     |         |
|            |              | CAPACITORS                             |     |         |
| C2         | ECQU2A224M   | P. CAPACITOR 250V 0.22U                | 1   |         |
| C3-C5      | VCK0046      | C. CAPACITOR V                         | 4   |         |
| C7         | ECQU2A224M   | P. CAPACITOR 250V 0.22U                | 1   |         |
|            |              |  |     |         |
|            |              |  |     |         |
| F1         | XBA2C63T80   | FUSE                                   | 1   |         |
|            |              |  |     |         |
|            |              |  |     |         |
| L1         | VLF0930      | COIL                                   | 1   |         |
|            |              |  |     |         |
|            |              |  |     |         |
| POWER20-22 | VJP2638      | CONNECTOR (MALE)                       | 3   |         |
|            |              |  |     |         |
|            |              |  |     |         |
|            |              | MISCELLANEOUS                          |     |         |
|            | VJF0318      | FUSE HOLDER                            | 2   |         |
|            | VM20730      | CAPACITANCE COVER                      | 4   |         |
|            | VM21305      | CAPACITANCE COVER                      | 2   |         |
|            |              |  |     |         |
|            |              |  |     |         |
|            |              |  |     |         |

| Ref.No. | Part No.     | Part Name & Description                     | Pcs | Remarks |
|---------|--------------|---|-----|---------|
|         |              |   |     |         |
|         | VVK3004      | P.C. BOARD W/COMPONENT<br>POWER SUPPLY UNIT |     |         |
|         |              |   |     |         |
|         |              |   |     |         |
|         |              | CAPACITORS                                  |     |         |
| C1      | ECQU2A224M   | P. CAPACITOR AC250V 0.22U                   | 1   |         |
| C2      | ECQU2A224M   | P. CAPACITOR AC250V 0.22U                   | 1   |         |
| C3      | ECQB1H473KF  | P. CAPACITOR 50V 0.047U                     | 1   |         |
| C4,C5   | ECQV1J105JZ  | P. CAPACITOR 1U                             | 2   |         |
| C6,C7   | ECQDS222ME   | C. CAPACITOR AC400V 2200P                   | 2   |         |
| C8,C9   | ECDS2EA681EA | E. CAPACITOR 250V 680U                      | 2   |         |
| C10     | ECQE6104KF   | P. CAPACITOR 630V 0.1UF                     | 1   |         |
| C11     | ECQB1H333KF  | P. CAPACITOR 50V 0.033U                     | 1   |         |
| C12     | ECQD3A471KBP | C. CAPACITOR 1KV 470U                       | 1   |         |
| C13     | ECQV1J105JZ  | P. CAPACITOR 1U                             | 1   |         |
| C14     | ECEA1VFE101  | E. CAPACITOR 35V 100U                       | 1   |         |
| C15     | ECQD3A471KBP | C. CAPACITOR 1KV 470U                       | 1   |         |
| C16     | ECQB1H102KF  | P. CAPACITOR 50V 1000P                      | 1   |         |
| C17     | ECQD3A101KB  | C. CAPACITOR 1KV 100U                       | 1   |         |
| C18,19  | ECQDS222ME   | C. CAPACITOR AC400V 2200P                   | 2   |         |
| C20     | ECQE1H683KF  | P. CAPACITOR 50V 0.068U                     | 1   |         |
| C51     | ECQD3A102KB  | C. CAPACITOR 1KV 1000P                      | 1   |         |
| C52     | ECQD3A681KB  | C. CAPACITOR 1KV 680U                       | 1   |         |
| C53     | ECEA1VFE102  | E. CAPACITOR 35V 1000U                      | 1   |         |
| C54     | ECQB1H152KF  | P. CAPACITOR 50V 1500P                      | 1   |         |
| C55     | ECQB1H102KF  | P. CAPACITOR 50V 1000P                      | 1   |         |
| C56     | ECQD3A102KB  | C. CAPACITOR 1KV 1000P                      | 1   |         |
| C57     | ECQD3A681KB  | C. CAPACITOR 1KV 680U                       | 1   |         |
| C58     | ECEA1AF0102L | E. CAPACITOR 10V 1000U                      | 1   |         |
| C59     | ECEA1AF0152  | E. CAPACITOR 10V 1500U                      | 1   |         |
| C60     | ECEA1HFE331  | E. CAPACITOR 50V 330U                       | 1   |         |
| C61     | ECEA1FE221   | E. CAPACITOR 25V 220U                       | 1   |         |
| C62,63  | ECQB1H102KF  | P. CAPACITOR 50V 1000P                      | 2   |         |
| C64,65  | ECQD3A681KB  | C. CAPACITOR 1KV 680U                       | 2   |         |
| C66     | ECEA1VFE102  | E. CAPACITOR 35V 1000U                      | 1   |         |
| C67     | ECQB1H102KF  | P. CAPACITOR 50V 1000P                      | 1   |         |
| C68,69  | ECQD3A681KB  | C. CAPACITOR 1KV 680U                       | 2   |         |
| C70     | ECEA1FE681   | E. CAPACITOR 25V 680U                       | 1   |         |
| C71     | ECEA1FE471L  | E. CAPACITOR 25V 470U                       | 1   |         |
| C72     | ECQB1H102KF  | P. CAPACITOR 50V 1000P                      | 1   |         |
| C73,74  | ECQD3A681KB  | C. CAPACITOR 1KV 680U                       | 2   |         |
| C75     | ECEA1CFE821  | E. CAPACITOR 16V 820U                       | 1   |         |
| C76     | ECEA1CFE681  | E. CAPACITOR 16V 680U                       | 1   |         |
| C77     | ECQB1H102KF  | P. CAPACITOR 50V 1000P                      | 1   |         |
| C78     | ECEA1CFE21   | E. CAPACITOR 16V 820U                       | 1   |         |
| C79     | ECEA1CFE681  | E. CAPACITOR 16V 680U                       | 1   |         |
| C80     | ECQB1H102KF  | P. CAPACITOR 50V 1000P                      | 1   |         |
| C81     | ECEA1CFE681  | E. CAPACITOR 16V 680U                       | 1   |         |
| C82,83  | ECEA1FE471L  | E. CAPACITOR 25V 470U                       | 2   |         |
| C84     | ECQB1H104KF  | P. CAPACITOR 50V 0.1U                       | 1   |         |
| C85-88  | ECQD3A681KB  | C. CAPACITOR 1KV 680U                       | 4   |         |
| C89     | ECEA1HFE270  | E. CAPACITOR 50V 27U                        | 1   |         |
| C90     | ECA1KFI00    | E. CAPACITOR 25V 10U                        | 1   |         |
| C91     | ECEA1FE471L  | E. CAPACITOR 25V 470U                       | 1   |         |
| C92     | ECQB1H222KF  | P. CAPACITOR 50V 2200P                      | 1   |         |
| C93     | ECQB1H102KF  | P. CAPACITOR 50V 1000P                      | 1   |         |
| C94     | ECQB1H473KF  | P. CAPACITOR 50V 0.047U                     | 1   |         |
| C95     | ECQV1H224JZ  | P. CAPACITOR 50V 0.22U                      | 1   |         |
| C96     | ECQB1H103KF  | P. CAPACITOR 50V 0.01U                      | 1   |         |
|         |              |   |     |         |
| CP1     | VJP2824B004  | CONNECTOR (MALE)                            | 1   |         |
| CP2     | VJP3015      | CONNECTOR (MALE)                            | 1   |         |
| CP51    | VJP2824B006  | CONNECTOR (MALE)                            | 1   |         |
| CP52    | VJP2824B007  | CONNECTOR (MALE)                            | 1   |         |
| CP53    | VJP2824B008  | CONNECTOR (MALE)                            | 1   |         |
| CP54    | VJP3016      | CONNECTOR (MALE)                            | 1   |         |
|         |              |   |     |         |
| CR1     | AC08EGM      | DIODE                                       | 1   |         |
|         |              |   |     |         |
|         |              |   |     |         |

Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.



| Ref.No. | Part No.   | Part Name & Description | Pcs | Remarks | Ref.No. | Part No.     | Part Name & Description | Pcs | Remarks |
|---------|------------|-------------------------|-----|---------|---------|--------------|-------------------------|-----|---------|
| CR2     | ERB44-06   | DIODE                   | 1   |         | Q54     | 2SC1815Y     | TRANSISTOR              | 1   |         |
| CR4,R5  | RD75EB     | ZENER                   | 1   |         | Q56     | 2SC1815Y     | TRANSISTOR              | 1   |         |
| CR4,R5  | RD68EB     | ZENER                   | 2   |         | Q57     | 2SC2655Y     | TRANSISTOR              | 1   |         |
| CR6     | RD12EBZ    | DIODE                   | 1   |         | Q58     | 2SA1015Y     | TRANSISTOR              | 1   |         |
| CR7     | RBV606     | DIODE                   | 1   |         | Q59     | 2SC1815Y     | TRANSISTOR              | 1   |         |
| CR8,R9  | 1SS118     | DIODE                   | 2   |         | Q60     | 2SC1815Y     | TRANSISTOR              | 1   |         |
| CR10    | AC08BGM    | DIODE                   | 1   |         |         |              |                         |     |         |
| CR11    | N413       | DIODE                   | 1   |         |         |              |                         |     |         |
| CR12    | 11DF2      | DIODE                   | 1   |         |         |              |                         |     |         |
| CR13    | ERB37-10   | DIODE                   | 1   |         |         |              | RESISTORS               |     |         |
| CR14    | 11DF2      | DIODE                   | 1   |         | R1      | ERF5RJ220    | W.RESISTOR 5W 22        | 1   |         |
| CR15,16 | ERB37-10   | DIODE                   | 1   |         | R2      | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |
| CR51    | ESAC92M-03 | DIODE                   | 1   |         | R3      | ERDS2FJ104   | C.RESISTOR 1/4W 100K    | 1   |         |
| CR52    | CTB-34     | DIODE                   | 1   |         | R4      | ERDS2FJ473   | C.RESISTOR 1/4W 47K     | 1   |         |
| CR53-55 | 1SS120     | DIODE                   | 3   |         | R5      | ERDS2FJ472   | C.RESISTOR 1/4W 4.7K    | 1   |         |
| CR56    | RD13EBZ    | ZENER                   | 1   |         | R6      | ERD25FJ124   | C.RESISTOR 1/4W 120K    | 1   |         |
| CR57    | 1SS120     | DIODE                   | 1   |         | R7      | ERDS2FJ105   | C.RESISTOR 1/4W 1W      | 1   |         |
| CR58    | RD9.1ESB2  | ZENER                   | 1   |         | R8      | ERDS2FJ103   | C.RESISTOR 1/4W 10K     | 1   |         |
| CR59    | RD39EBZ    | ZENER                   | 1   |         | R9      | ERDS2FJ473   | C.RESISTOR 1/4W 47K     | 1   |         |
| CR60    | 1SS120     | DIODE                   | 1   |         | R10     | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |
| CR61    | RD9.1ESB2  | ZENER                   | 1   |         | R11     | ERG2SJ120    | M.RESISTOR 2W 12        | 1   |         |
| CR62    | 1SS120     | DIODE                   | 1   |         | R12     | ERG2SJ3R9    | M.RESISTOR 2W 3.9       | 1   |         |
| CR63    | RD5.6JSE2  | ZENER                   | 1   |         | R13     | ERD25FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |
| CR64    | HE56.8NB2  | DIODE                   | 1   |         | R14     | ERG2SJ330    | M.RESISTOR 2W 33        | 1   |         |
| CR65    | 03P2M      | THYRISTOR               | 1   |         | R15,16  | ERD50FJ184   | C.RESISTOR 1/2W 180K    | 2   |         |
| CR66    | 1SS118     | DIODE                   | 1   |         | R17,18  | ERD50FJ104   | C.RESISTOR 1/2W 100K    | 1   |         |
| CR67-69 | 1SS120     | DIODE                   | 3   |         | R19     | ERDS2FJ471   | C.RESISTOR 1/4W 470     | 1   |         |
| CR70    | ESAB92M-02 | DIODE                   | 1   |         | R20     | ERDS2FJ2R2   | C.RESISTOR 1/4W 2.2     | 1   |         |
| CR71,72 | 1SS120     | DIODE                   | 2   |         | R21     | ERF5RJ220    | W.RESISTOR 5W 22        | 1   |         |
| CR74,73 | ESAB92M-02 | DIODE                   | 2   |         | R22     | ERD50FJ100   | C.RESISTOR 1/2W 10      | 1   |         |
| CR75-77 | 1SS120     | DIODE                   | 3   |         | R23     | ERD50FJ150   | C.RESISTOR 1/2W 15      | 1   |         |
| CR78    | RD4.7JSE2  | ZENER                   | 1   |         | R24     | ERD50FJ471   | C.RESISTOR 1/2W 470     | 1   |         |
| CR79    | 1SS118     | DIODE                   | 1   |         | R25     | ERF5RJ220    | W.RESISTOR 5W 22        | 1   |         |
| CR80,81 | 1SS120     | DIODE                   | 2   |         | R26     | ERDS2FJ471   | C.RESISTOR 1/4W 470     | 1   |         |
| CR82    | RD3.0ESB2  | ZENER                   | 1   |         | R27     | ERDS2FJ2R2   | C.RESISTOR 1/4W 2.2     | 1   |         |
| CR83    | 11DF2      | DIODE                   | 1   |         | R28     | ERD50FJ150   | C.RESISTOR 1/2W 15      | 1   |         |
| CR84,85 | ESAB92-02N | DIODE                   | 2   |         | R29     | ERD50FJ471   | C.RESISTOR 1/2W 470     | 1   |         |
| CR86    | 1SS120     | DIODE                   | 1   |         | R30     | ERD50FJ100   | C.RESISTOR 1/2W 10      | 1   |         |
| CR87    | 11DF2      | DIODE                   | 1   |         | R31     | ERD25FJ124   | C.RESISTOR 1/4W 120K    | 1   |         |
| CR88    | 1SS120     | DIODE                   | 1   |         | R32     | ERD50FJ105   | C.RESISTOR 1/4W 1W      | 1   |         |
| CR89,90 | 11DF2      | DIODE                   | 2   |         | R33     | ERG2SJ330    | M.RESISTOR 2W 33        | 1   |         |
|         |            |                         |     |         | R34     | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |
|         |            |                         |     |         | R35     | ERD25FJ221   | C.RESISTOR 1/4W 220     | 1   |         |
|         |            |                         |     |         | R51,52  | ERD50FJ100   | C.RESISTOR 1/2W 10      | 2   |         |
| FL      | EYP2BN098  | FUSE                    | 1   |         | R53     | ERF5RJ221    | W.RESISTOR 5W 220       | 1   |         |
|         |            |                         |     |         | R54     | ERGLAU470    | M.RESISTOR 1W 47        | 1   |         |
|         |            |                         |     |         | R55     | EROS2CHF1200 | M.RESISTOR 1/6W 120     | 1   |         |
|         |            |                         |     |         | R56     | EROS2CHF39R0 | M.RESISTOR 1/6W 39      | 1   |         |
| IC51,52 | HA3759P    | IC                      | 2   |         | R57,58  | ERD50FJ100   | C.RESISTOR 1/2W 10      | 2   |         |
| IC53    | UPC339C    | IC                      | 1   |         | R59-61  | ERD50FJ101   | C.RESISTOR 1/2W 100     | 3   |         |
| IC54    | UPC337K    | IC                      | 1   |         | R62,63  | ERD50FJ122   | C.RESISTOR 1/2W 1.2K    | 2   |         |
|         |            |                         |     |         | R64     | ERDS2FJ471   | C.RESISTOR 1/4W 470     | 1   |         |
|         |            |                         |     |         | R65     | ERD25FJ471   | C.RESISTOR 1/4W 470     | 1   |         |
|         |            |                         |     |         | R66     | EROS2CHF4702 | M.RESISTOR 1/4W 47K     | 1   |         |
| LL      | VLQ0873    | FILTER                  | 1   |         | R67     | EROS2CHF1802 | M.RESISTOR 1/4W 18K     | 1   |         |
| L51,52  | VLQ0477    | COIL                    | 1   |         | R68     | ERDS2FJ101   | C.RESISTOR 1/4W 100     | 1   |         |
| L53     | VLQ0478    | COIL                    | 1   |         | R69,70  | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 2   |         |
| L54     | VLQ0479    | COIL                    | 1   |         | R71     | ERD25FJ6R8   | C.RESISTOR 1/4W 6.8K    | 1   |         |
| L55     | VLQ0480    | COIL                    | 1   |         | R72     | ERD50FJ102   | C.RESISTOR 1/2W 1K      | 1   |         |
| L56     | VLQ0481    | COIL                    | 1   |         | R73     | ERDS2FJ331   | C.RESISTOR 1/4W 330     | 1   |         |
| L57,58  | VLQ0482    | COIL                    | 2   |         | R74     | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |
| L59     | VLQ0483    | COIL                    | 1   |         | R75     | ERDS2FJ222   | C.RESISTOR 1/4W 2.2K    | 1   |         |
|         |            |                         |     |         | R76     | ERDS2FJ912   | C.RESISTOR 1/4W 9.1K    | 1   |         |
|         |            |                         |     |         | R77     | EROS2CHF1201 | M.RESISTOR 1/4W 1.2K    | 1   |         |
| Q1      | 2SA1015Y   | TRANSISTOR              | 1   |         | R78     | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |
| Q2      | 2SA562TMY  | TRANSISTOR              | 1   |         | R79     | ERDS2FJ223   | C.RESISTOR 1/4W 22K     | 1   |         |
| Q3      | 2SA1015Y   | TRANSISTOR              | 1   |         | R80     | ERDS2FJ104   | C.RESISTOR 1/4W 100K    | 1   |         |
| Q4      | 2SK719     | TRANSISTOR              | 1   |         | R81     | VRV064B102   | V.RESISTOR 1K           | 1   |         |
| Q5      | 2SA562TMY  | TRANSISTOR              | 1   |         | R82     | EROS2CHF1801 | M.RESISTOR 1/4W 1.8K    | 1   |         |
| Q6      | 2SK794     | TRANSISTOR              | 1   |         | R83     | EROS2CHF6800 | M.RESISTOR 1/4W 680     | 1   |         |
| Q7      | 2SA562TMY  | TRANSISTOR              | 1   |         | R84     | ERDS2FJ222   | C.RESISTOR 1/4W 2.2K    | 1   |         |
| Q51     | 2SD680Y    | TRANSISTOR              | 1   |         | R85     | VRT0029      | THERMISTOR              | 1   |         |
| Q52     | 2SD1406    | TRANSISTOR              | 1   |         | R86     | ERDS2FJ332   | C.RESISTOR 1/4W 3.3K    | 1   |         |
| Q53     | 2SC2655Y   | TRANSISTOR              | 1   |         | R87     | ERDS2FJ222   | C.RESISTOR 1/4W 2.2K    | 1   |         |
|         |            |                         |     |         | R89     | ERDS2FJ103   | C.RESISTOR 1/4W 10K     | 1   |         |

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| Ref. No. | Part No.   | Part Name & Description | Pcs | Remarks |
|----------|------------|-------------------------|-----|---------|
| CR3      | RD75EB     | ZENER                   | 1   |         |
| CR4, R5  | RD68EB     | ZENER                   | 2   |         |
| CR6      | RD12EB2    | DIODE                   | 1   |         |
| CR7      | RBV606     | DIODE                   | 1   |         |
| CR8, R9  | 1SS118     | DIODE                   | 2   |         |
| CR10     | AC08PQM    | DIODE                   | 1   |         |
| CR11     | M413       | DIODE                   | 1   |         |
| CR12     | 11DF2      | DIODE                   | 1   |         |
| CR13     | ERB37-10   | DIODE                   | 1   |         |
| CR14     | 11DF2      | DIODE                   | 1   |         |
| CR15, 16 | ERB37-10   | DIODE                   | 2   |         |
| CR51     | ESAC92M-03 | DIODE                   | 1   |         |
| CR52     | CTB-34     | DIODE                   | 1   |         |
| CR53, 54 | 1SS120     | DIODE                   | 3   |         |
| CR55     | 11DF2      | DIODE                   | 1   |         |
| CR56     | RD13EB2    | ZENER                   | 1   |         |
| CR57     | 1SS120     | DIODE                   | 1   |         |
| CR58     | RD9.1ESB2  | ZENER                   | 1   |         |
| CR59     | RD39ESB2   | ZENER                   | 1   |         |
|          |            |                         |     |         |
| F1       | KYP22B098  | FUSE                    | 1   |         |
|          |            |                         |     |         |
| L1       | VLF0930    | FILTER                  | 1   |         |
|          |            |                         |     |         |
|          |            |                         |     |         |
| Q1       | 2SA1015Y   | TRANSISTOR              | 1   |         |
| Q2       | 2SA562TM   | TRANSISTOR              | 1   |         |
| Q3       | 2SA1015Y   | TRANSISTOR              | 1   |         |
| Q53      | 2SC2655Y   | TRANSISTOR              | 1   |         |
| Q54      | 2SC1815Y   | TRANSISTOR              | 1   |         |
| Q56      | 2SC1815Y   | TRANSISTOR              | 1   |         |
| Q57      | 2SC2655Y   | TRANSISTOR              | 1   |         |
| Q58      | 2SA1015Y   | TRANSISTOR              | 1   |         |
| Q59      | 2SC1815Y   | TRANSISTOR              | 1   |         |
| Q60      | 2SC1815Y   | TRANSISTOR              | 1   |         |
|          |            |                         |     |         |
|          |            |                         |     |         |
|          |            | RESISTORS               |     |         |
| R1       | ERF5RJ220  | W.RESISTOR 5W 22        | 1   |         |
| R2       | ERDS2FJ102 | C.RESISTOR 1/4W 1K      | 1   |         |
| R3       | ERDS2FJ104 | C.RESISTOR 1/4W 100K    | 1   |         |
| R4       | ERDS2FJ473 | C.RESISTOR 1/4W 47K     | 1   |         |
| R5       | ERDS2FJ472 | C.RESISTOR 1/4W 4.7K    | 1   |         |
| R6       | ERD25FJ124 | C.RESISTOR 1/4W 120K    | 1   |         |
| R7       | ERDS2FJ105 | C.RESISTOR 1/4W 1M      | 1   |         |
| R8       | ERDS2FJ103 | C.RESISTOR 1/4W 10K     | 1   |         |
| R9       | ERDS2FJ473 | C.RESISTOR 1/4W 47K     | 1   |         |
| R10      | ERDS2FJ102 | C.RESISTOR 1/4W 1K      | 1   |         |
| R11      | ERG2SJ120  | M.RESISTOR 2W 12        | 1   |         |
| R12      | ERG2SJ3R9  | M.RESISTOR 2W 3.9       | 1   |         |
| R13      | ERD25FJ102 | C.RESISTOR 1/4W 1K      | 1   |         |
| R14      | ERG2SJ330  | M.RESISTOR 2W 33        | 1   |         |
| R15, 16  | ERD50FJ184 | C.RESISTOR 1/4W 180K    | 2   |         |
| R17, 18  | ERD50FJ104 | C.RESISTOR 1/2W 100K    | 2   |         |
| R19      | ERDS2FJ471 | C.RESISTOR 1/4W 470     | 1   |         |
| R20      | ERDS2FJ2R2 | C.RESISTOR 1/4W 2.2     | 1   |         |
| R21      | ERF5RJ220  | W.RESISTOR 5W 22        | 1   |         |
| R22      | ERD50FJ100 | C.RESISTOR 1/2W 10      | 1   |         |
| R23      | ERD50FJ150 | C.RESISTOR 1/2W 15      | 1   |         |
| R24      | ERD50FJ471 | C.RESISTOR 1/2W 470     | 1   |         |
| R25      | ERF5RJ220  | W.RESISTOR 5W 22        | 1   |         |
| R26      | ERDS2FJ471 | C.RESISTOR 1/4W 470     | 1   |         |
| R27      | ERDS2FJ2R2 | C.RESISTOR 1/4W 2.2     | 1   |         |
| R28      | ERD50FJ150 | C.RESISTOR 1/2W 15      | 1   |         |
| R29      | ERD50FJ471 | C.RESISTOR 1/2W 470     | 1   |         |
| R30      | ERD50FJ100 | C.RESISTOR 1/2W 10      | 1   |         |
| R31      | ERD25FJ124 | C.RESISTOR 1/4W 120K    | 1   |         |
| R32      | ERD50FJ105 | C.RESISTOR 1/4W 1M      | 1   |         |
| R33      | ERG2SJ330  | M.RESISTOR 2W 33        | 1   |         |

| Ref. No. | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| R34      | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |
| R35      | ERD25FJ221   | C.RESISTOR 1/4W 220     | 1   |         |
| R51, 52  | ERD50FJ100   | C.RESISTOR 1/2W 10      | 2   |         |
| R53      | ERF5RJ221    | W.RESISTOR 5W 220       | 1   |         |
| R54      | ENG1ANJ470   | M.RESISTOR 1W 47        | 1   |         |
| R55      | EROS2CHF1000 | M.RESISTOR 1/6W 100     | 1   |         |
| R56      | ERDS2CHF390  | M.RESISTOR 1/6W 39      | 1   |         |
| R57, 58  | ERD50FJ100   | C.RESISTOR 1/2W 10      | 2   |         |
| R59-61   | ERD50FJ101   | C.RESISTOR 1/2W 100     | 3   |         |
| R62, 63  | ERD50FJ122   | C.RESISTOR 1/2W 1.2K    | 2   |         |
| R64      | ERDS2FJ471   | C.RESISTOR 1/4W 470     | 1   |         |
| R65      | ERD25FJ471   | C.RESISTOR 1/4W 470     | 1   |         |
| R66      | EROS2CHF4702 | M.RESISTOR 1/4W 47K     | 1   |         |
| R67      | EROS2CHF1802 | M.RESISTOR 1/4W 18K     | 1   |         |
| R68      | ERDS2FJ101   | C.RESISTOR 1/4W 100     | 1   |         |
| R69, 70  | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 2   |         |
| R71      | ERD25FJ6R8   | C.RESISTOR 1/4W 6.8K    | 1   |         |
| R72      | ERD50FJ102   | C.RESISTOR 1/2W 1K      | 1   |         |
| R73      | ERDS2FJ331   | C.RESISTOR 1/4W 330     | 1   |         |
| R74      | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |
| R75      | ERDS2FJ222   | C.RESISTOR 1/4W 2.2K    | 1   |         |
| R76      | ERDS2FJ912   | C.RESISTOR 1/4W 9.1K    | 1   |         |
| R77      | EROS2CHF1201 | M.RESISTOR 1/4W 1.2K    | 1   |         |
| R78      | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |
| R79      | ERDS2FJ223   | C.RESISTOR 1/4W 22K     | 1   |         |
| R80      | ERDS2FJ104   | C.RESISTOR 1/4W 100K    | 1   |         |
| R81      | VRV0112B102  | V.RESISTOR 1/2W 1K      | 1   |         |
| R82      | EROS2CHF1801 | M.RESISTOR 1/4W 1.8K    | 1   |         |
| R83      | EROS2CHF6800 | M.RESISTOR 1/4W 680     | 1   |         |
| R84      | ERDS2FJ222   | C.RESISTOR 1/4W 2.2K    | 1   |         |
| R85      | VRT0029      | THERMISTOR              | 1   |         |
| R86      | ERDS2FJ332   | C.RESISTOR 1/4W 3.3K    | 1   |         |
| R87      | ERDS2FJ222   | C.RESISTOR 1/4W 2.2K    | 1   |         |
| R89      | ERDS2FJ103   | C.RESISTOR 1/4W 10K     | 1   |         |
| R90      | ERDS2FJ222   | C.RESISTOR 1/4W 2.2K    | 1   |         |
| R91      | EROS2CHF1800 | M.RESISTOR 1/4W 180     | 1   |         |
| R92, 93  | ERD50FJ100   | C.RESISTOR 1/2W 10      | 2   |         |
| R94      | ERD50FJ122   | C.RESISTOR 1/2W 1.2K    | 1   |         |
| R95      | EROS2CHF1500 | M.RESISTOR 1/4W 150     | 1   |         |
| R96, 97  | ERD50FJ100   | C.RESISTOR 1/2W 10      | 2   |         |
| R98      | ERD50FJ102   | C.RESISTOR 1/2W 1K      | 1   |         |
| R99      | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |
| R100     | EROS2CHF2700 | M.RESISTOR 1/4W 270     | 1   |         |
| R101, 02 | ERD50FJ100   | C.RESISTOR 1/2W 10      | 2   |         |
| R103     | ERD50FJ471   | C.RESISTOR 1/2W 470     | 1   |         |
| R104     | EROS2CHF2700 | M.RESISTOR 1/4W 270     | 1   |         |
| R105     | ERD50FJ102   | C.RESISTOR 1/2W 1K      | 1   |         |
| R106     | ERD50FJ561   | C.RESISTOR 1/2W 560     | 1   |         |
| R107     | EROS2CHF2700 | M.RESISTOR 1/4W 270     | 1   |         |
| R108     | ERD25FJ471   | C.RESISTOR 1/4W 470     | 1   |         |
| R109     | EROS2CHF4702 | M.RESISTOR 1/4W 47K     | 1   |         |
| R110     | EROS2CHF2202 | M.RESISTOR 1/4W 22K     | 1   |         |
| R111     | ERDS2FJ471   | C.RESISTOR 1/4W 470     | 1   |         |
| R112     | ERD25FJ6R8   | C.RESISTOR 1/4W 6.8K    | 1   |         |
| R113     | ERD50FJ681   | C.RESISTOR 1/2W 680     | 1   |         |
| R114     | ERDS2FJ331   | C.RESISTOR 1/4W 330     | 1   |         |
| R115     | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |
| R116     | ERDS2FJ331   | C.RESISTOR 1/4W 330     | 1   |         |
| R117     | ERDS2FJ471   | C.RESISTOR 1/4W 470     | 1   |         |
| R118     | EROS2CHF2201 | M.RESISTOR 1/4W 2.2K    | 1   |         |
| R119     | EROS2CHF1501 | M.RESISTOR 1/4W 1.5K    | 1   |         |
| R120     | ERDS2FJ223   | C.RESISTOR 1/4W 22K     | 1   |         |
| R121     | EROS2CHF1201 | M.RESISTOR 1/4W 1.2K    | 1   |         |
| R122     | VRV0112B102  | V.RESISTOR 1/2W 1K      | 1   |         |
| R123     | EROS2CHF3301 | M.RESISTOR 1/4W 3.3K    | 1   |         |
| R124     | ERDS2FJ121   | C.RESISTOR 1/4W 120     | 1   |         |
| R125     | EROS2CHF1101 | M.RESISTOR 1/4W 1.1K    | 1   |         |
| R126-29  | ERD50FJ100   | C.RESISTOR 1/2W 10      | 4   |         |
| R130     | EROS2CHF6800 | M.RESISTOR 1/4W 680     | 1   |         |
| R131, 32 | ERDS2FJ332   | C.RESISTOR 1/4W 3.3K    | 2   |         |
| R134     | ERDS2FJ103   | C.RESISTOR 1/4W 10K     | 1   |         |
| R135     | ERDS2FJ562   | C.RESISTOR 1/4W 5.6K    | 1   |         |
| R136     | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |
| R137     | ERDS2FJ392   | C.RESISTOR 1/4W 3.9K    | 1   |         |
| R138     | ERDS2FJ102   | C.RESISTOR 1/4W 1K      | 1   |         |

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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| Q5-Q8   | 2SC2295     | TRANSISTOR CHIP          | 4   | (B,C)   | R87     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q9      | 2SC2851     | TRANSISTOR               | 1   |         | R88     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q10-16  | 2SC2851     | TRANSISTOR               | 7   |         | R89     | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         |
| Q17-23  | 2SB789      | TRANSISTOR               | 7   | (Q,R)   | R90     | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68   | 1   |         |
| Q201    | 2SC3757     | TRANSISTOR               | 1   | (Q,R)   | R91     | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         |
| Q202,03 | 2SK316      | TRANSISTOR               | 2   | (Q)     | R92     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q204,05 | 2SC3757     | TRANSISTOR               | 2   | (Q,R)   | R93     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q206,07 | 2SK316      | TRANSISTOR               | 2   | (Q)     | R94     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q208,09 | 2SC3757     | TRANSISTOR               | 2   | (Q,R)   | R95,96  | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| Q210,11 | 2SK316      | TRANSISTOR               | 2   | (Q)     | R97     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q212,13 | 2SC3757     | TRANSISTOR               | 2   | (Q,R)   | R98     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q214,15 | 2SK316      | TRANSISTOR               | 2   | (Q)     | R99     | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         |
| Q216    | 2SC3757     | TRANSISTOR               | 1   | (Q,R)   | R100    | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68   | 1   |         |
| Q217    | 2SD602      | TRANSISTOR CHIP          | 1   | (Q,R,S) | R101    | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         |
| Q218    | UN2213      | TRANSISTOR-RESISTOR      | 1   |         | R102    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q219    | 2SB643      | TRANSISTOR               | 1   |         | R103    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q220,21 | 2SD602      | TRANSISTOR CHIP          | 2   | (Q,R,S) | R104    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q222-25 | 2SC3757     | TRANSISTOR               | 4   | (Q,R)   | R105,06 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
|         |             |                          |     |         | R107    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
|         |             |                          |     |         | R108    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
|         |             |                          |     |         | R109    | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         |
|         |             | RESISTORS                |     |         | R110    | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68   | 1   |         |
| R8      | ERJ6GEYJ750 | M.RESISTOR CH 1/10W 75   | 1   |         | R111    | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         |
| R16     | ERJ6GEYJ750 | M.RESISTOR CH 1/10W 75   | 1   |         | R112    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R21,22  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R113    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R27,28  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R114    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R29     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R115,16 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R30     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R117    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R31     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R118    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R32     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R119    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R33     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R120    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R34     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R121    | ERJ6GCJ820  | M.RESISTOR CH 1/8W 82    | 1   |         |
| R35     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R122,23 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R36     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R124,25 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R37     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R126    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R38     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R127    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R39     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         | R128    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R40     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R129    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R41     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R130    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R42     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R131    | ERJ8GCJ820  | M.RESISTOR CH 1/8W 82    | 1   |         |
| R43,44  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R132,33 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R45,46  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R134,35 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R47     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R136    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R48     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R137    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R49     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         | R138    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R50     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R201    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R51     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R202    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R52     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R203    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R53,54  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R204    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R55,56  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R205    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R57     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R206-08 | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 3   |         |
| R58     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R209    | ERJ6GEYJ680 | M.RESISTOR CH 1/10W      | 1   |         |
| R59     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         | R210    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R60     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R211    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R61     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R212    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R62     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R213    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R63,64  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R214    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R65,66  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R215    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R67     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R216    | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R68     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R217    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R69     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         | R218    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R70     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R219    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R71     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R220    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R72     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R221    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R73,74  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R222    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R75,76  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R223    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R77     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R224-26 | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 3   |         |
| R78     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R227    | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68   | 1   |         |
| R79     | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         | R228    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R80     | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68   | 1   |         | R229    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R81     | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         | R230    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R82     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R231    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R83     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R232    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R84     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R233    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R85,86  | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         | R234    | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180  | 1   |         |

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| Ref.No.  | Part No.    | Part Name & Description   | Pcs | Remarks |
|----------|-------------|---------------------------|-----|---------|
| CN81     | VJP1511T    | CONNECTOR(MALE)           | 1   |         |
| CN83     | VJP1233T    | CONNECTOR(MALE) 6P        | 1   |         |
| CN84     | VJP1233G    | CONNECTOR(MALE) 6P        | 1   |         |
| CN85     | VJP1233T    | CONNECTOR(MALE) 6P        | 1   |         |
| CN86     | VJP1233G    | CONNECTOR(MALE) 6P        | 1   |         |
|          |             |                           |     |         |
|          |             |                           |     |         |
| D201     | MA151K      | DIODE                     | 1   |         |
|          |             |                           |     |         |
|          |             |                           |     |         |
| IC201-04 | NJM592MB    | IC                        | 4   |         |
| IC205    | AN78N09     | IC                        | 1   |         |
|          |             |                           |     |         |
|          |             |                           |     |         |
| L201-05  | VLQLO5F101K | COIL 100UH                | 5   |         |
|          |             |                           |     |         |
|          |             |                           |     |         |
| Q201     | 2SC3757     | TRANSISTOR 1 (Q,R)        |     |         |
| Q202,03  | 2SK316      | TRANSISTOR 2 (Q)          |     |         |
| Q204,05  | 2SC3757     | TRANSISTOR 2 (Q,R)        |     |         |
| Q206,07  | 2SK316      | TRANSISTOR 2 (Q)          |     |         |
| Q208,09  | 2SC3757     | TRANSISTOR 2 (Q,R)        |     |         |
| Q210,11  | 2SK316      | TRANSISTOR 2 (Q)          |     |         |
| Q212,13  | 2SC3757     | TRANSISTOR 2 (Q,R)        |     |         |
| Q214,15  | 2SK316      | TRANSISTOR 2 (Q)          |     |         |
| Q216     | 2SC3757     | TRANSISTOR 1 (Q,R)        |     |         |
| Q217     | 2SD602      | TRANSISTOR CHIP 1 (Q,R,S) |     |         |
| Q218     | UN2213      | TRANSISTOR-RESISTOR 1     |     |         |
| Q219     | 2SB643      | TRANSISTOR 1              |     |         |
| Q220,21  | 2SD602      | TRANSISTOR CHIP 2 (Q,R,S) |     |         |
| Q222-25  | 2SC3757     | TRANSISTOR 4 (Q,R)        |     |         |
|          |             |                           |     |         |
|          |             |                           |     |         |
|          |             | RESISTORS                 |     |         |
| R201     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R202     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R203     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R204     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K   | 1   |         |
| R205     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R206-08  | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 3   |         |
| R209     | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68    | 1   |         |
| R210     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K  | 1   |         |
| R211     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R212     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R213     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R214     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R215     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R216     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| R217     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R218     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R219     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R220     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R221     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R222     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K   | 1   |         |
| R223     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R224-26  | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 3   |         |
| R227     | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68    | 1   |         |
| R228     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K  | 1   |         |
| R229     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R230     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R231     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R232     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R233     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         |
| R234     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         |
| R235     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R236     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         |
| R237     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R238     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |
| R239     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R240     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         |
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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| R51     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R202    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R52     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R203    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R53,54  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R204    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R55,56  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R205    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R57     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R206-08 | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 3   |         |
| R58     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R209    | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68   | 1   |         |
| R59     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         | R210    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R60     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R211    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R61     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R212    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R62     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R213    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R63,64  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R214    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R65,66  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R215    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R67     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R216    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R68     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R217    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R69     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         | R218    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R70     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R219    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R71     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R220    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R72     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R221    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R73,74  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R222    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R75,76  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R223    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R77     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R224-26 | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 3   |         |
| R78     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R227    | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68   | 1   |         |
| R79     | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         | R228    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R80     | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68   | 1   |         | R229    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R81     | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         | R230    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R82     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R231    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R83     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R232    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R84     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R233    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R85,86  | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         | R234    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R87     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R235    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R88     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R236    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R89     | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         | R237    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R90     | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68   | 1   |         | R238    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R91     | ERDS2TJ470  | C.RESISTOR 1/4W 47       | 1   |         | R239    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R92     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R240    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R93     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R241    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R94     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R242-44 | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 3   |         |
| R95,96  | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         | R245    | ER          |                          |     |         |





Refer to the P.C. BOARDS LIST, page 6-1-1, before using this page.







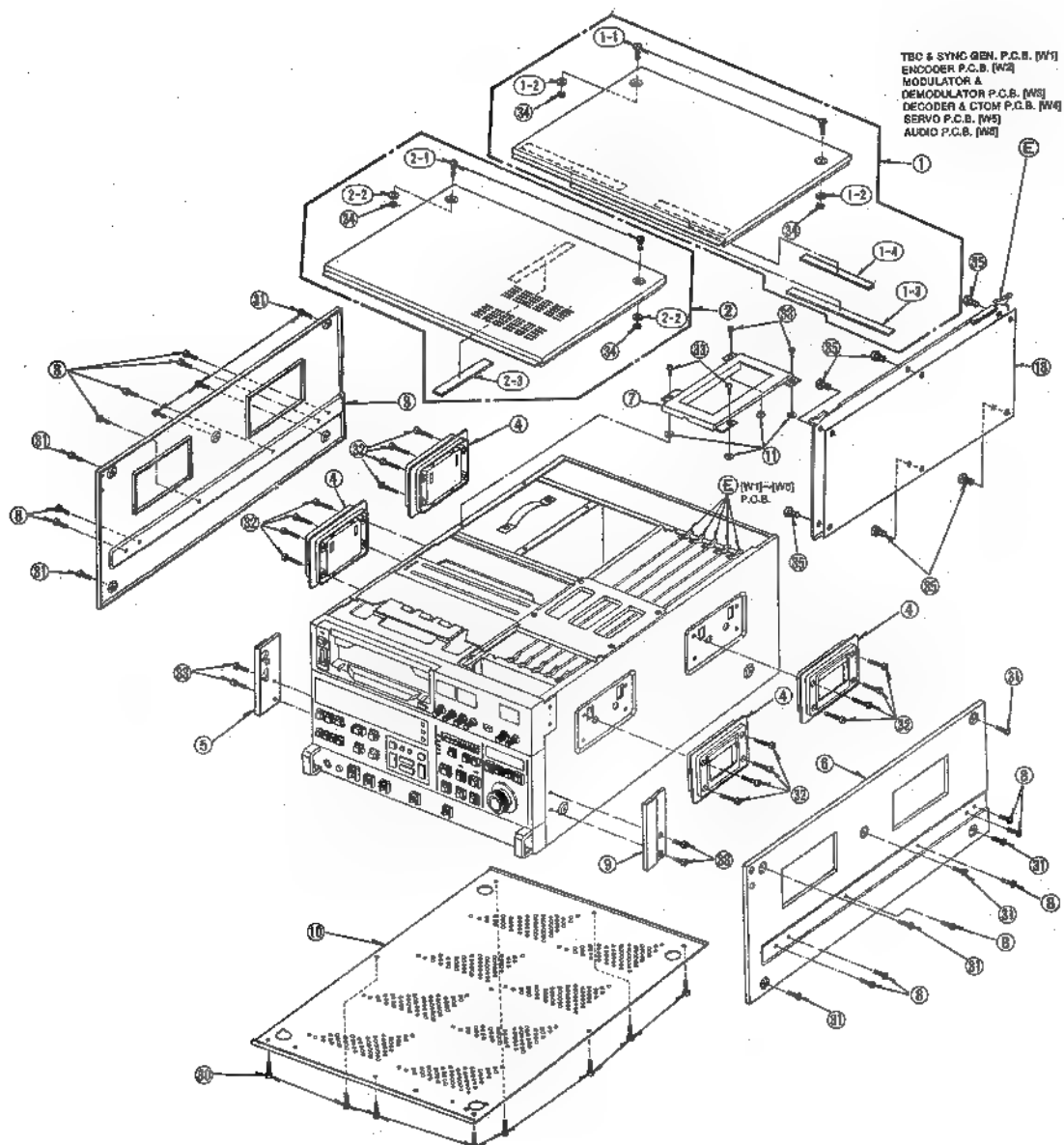






# MECHANICAL REPLACEMENT PARTS LIST

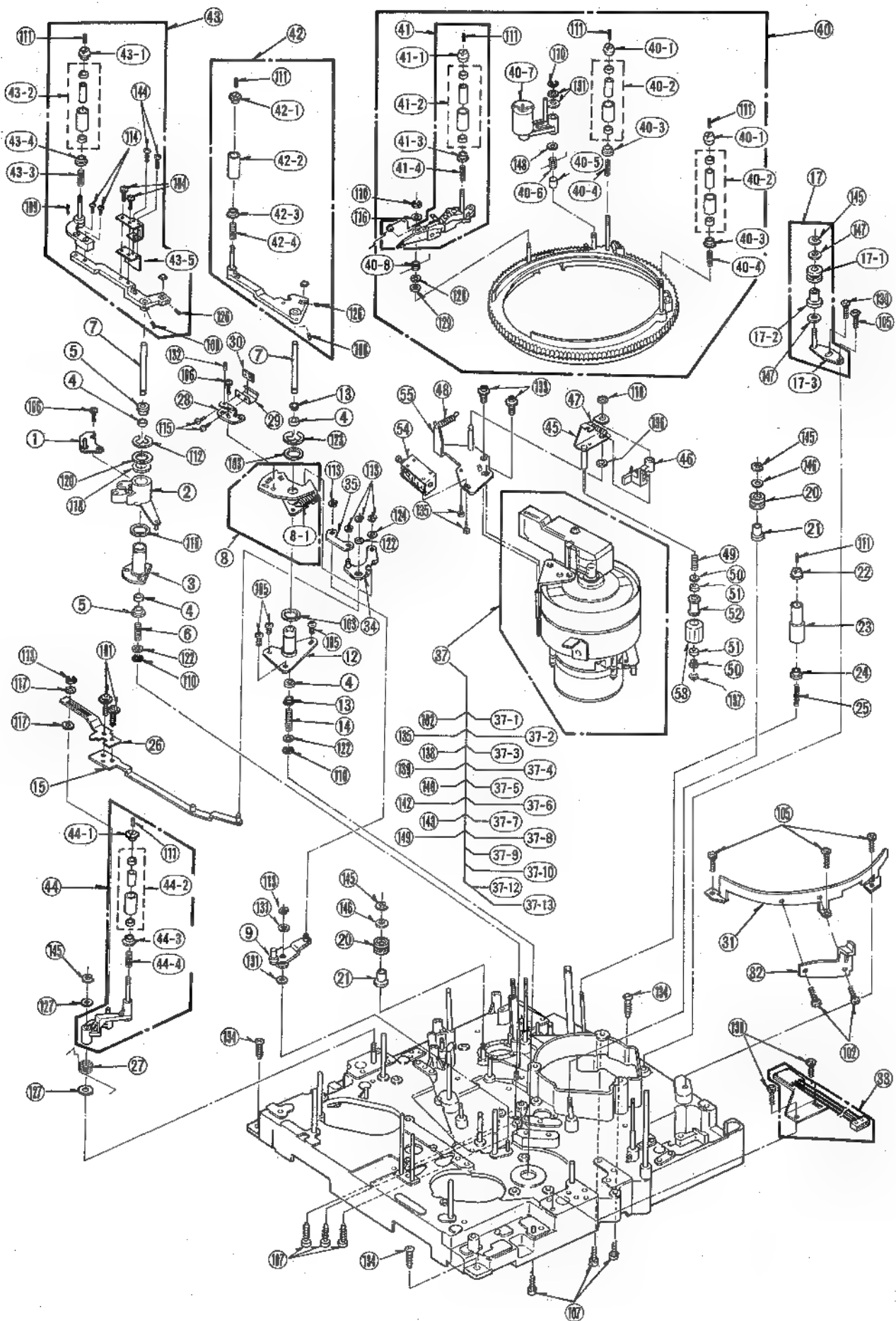
## CASING FRAME ASSEMBLY



## CASING FRAME ASSEMBLY

| Ref.No. | Part No. | Part Name & Description    | Pcs | Remarks | Ref.No. | Part No.   | Part Name & Description     | Pcs | Remarks                                  |
|---------|----------|----------------------------|-----|---------|---------|------------|-----------------------------|-----|--|
| 1       | VYP2980  | REAR TOP COVER UNIT        | 1   |         | 9       | VYK1491    | RIGHT SIDE PANEL PLATE UNIT | 1   |  |
| 1-1     | VHD0274  | TOP COVER SCREW            | 2   |         | 10      | VGM0591    | BOTTOM PLATE                | 1   |  |
| 1-2     | VWX0835  | TOP COVER SPACER (SCREW)   | 2   |         | 11      | VWX1558    | WASHER                      | 4   |  |
| 1-3     | VWX1835  | REAR TOP COVER SPACER (A)  | 1   |         | 13      | VXA3965    | W P.C.B. SHIELD PLATE       | 6   | 5pcs:AU-63-P,AU-63-E,<br>AU-62-P,AU-62-E |
| 1-4     | VMT0119  | P.C.B. PRESSURE RUBBER     | 1   |         |         |            |                             |     |  |
| 2       | VYP2379  | FRONT TOP COVER UNIT       | 1   |         |         |            |                             |     |  |
| 2-1     | VHD0274  | TOP COVER SCREW            | 2   |         |         |            |                             |     |  |
| 2-2     | VWX0835  | TOP COVER SPACER (SCREW)   | 2   |         |         |            |                             |     |  |
| 2-3     | VWX1836  | FRONT TOP COVER SPACER (B) | 1   |         |         |            |                             |     |  |
| 3       | VGM0610  | LEFT SIDE COVER            | 1   |         | 30      | XSB3+6S    | SCREW                       | 8   |  |
| 4       | VYH0128  | HANDLE                     | 4   |         | 31      | XSB4+BFCS  | SCREW                       | 10  |  |
| 5       | VYK1492  | LEFT SIDE PANEL PLATE UNIT | 1   |         | 32      | XSB4+16PCS | SCREW                       | 16  |  |
| 6       | VGM0609  | RIGHT SIDE COVER           | 1   |         | 33      | KTV3+6F    | SCREW                       | 1   |  |
| 7       | VMP2597  | POWER UNIT MOUNT ANGLE     | 1   |         | 34      | KUC3FP     | E-RING                      | 4   |  |
| 8       | VHD0153  | RAIL MOUNT SCREW           | 12  |         | 35      | KTVV3+H6FR | SCREW                       | 6   |  |

# MECHANICAL CHASSIS ASSEMBLY (1)



# MECHANICAL CHASSIS ASSEMBLY (1)

| Ref.No. | Part No. | Part Name & Description     | Pcs | Remarks                             | Ref.No. | Part No.    | Part Name & Description    | Pcs | Remarks                             |
|---------|----------|-----------------------------|-----|-------------------------------------|---------|-------------|----------------------------|-----|-------------------------------------|
| 1       | VXA2302  | STOPPER PIN BASE UNIT       | 1   |                                     | 41-1    | VMS3638     | UPPER FLANGE               | 1   |                                     |
| 2       | VXL1309  | SUPPLY TA SUB-ARM (1) UNIT  | 1   |                                     | 41-2    | VXP0821     | POST ROLLER (B) UNIT       | 1   |                                     |
| 3       | VDB0772  | SUPPLY TENSION SUPPORT      | 1   |                                     | 41-3    | VMS2803     | LOWER FLANGE               | 1   |                                     |
|         |          | HOUSING                     |     |                                     | 41-4    | VMB1376     | POST SPRING                | 1   |                                     |
| 4       | VDB0779  | BEARING                     | 4   |                                     | 42      | VXL1319     | TAKE-UP TENSION ARM UNIT   | 1   |                                     |
| 5       | VXD0794  | BEARING RETAINER            | 2   |                                     | 42-1    | VMS3639     | UPPER FLANGE (P1)          | 1   |                                     |
| 6       | VMB1378  | POST SPRING                 | 1   |                                     | 42-2    | VXP0820     | POST ROLLER (A) UNIT       | 1   |                                     |
| 7       | VMS3662  | PANEL FIXTURE (LEFT)        | 2   |                                     | 42-3    | VMS2800     | LOWER FLANGE (P3)          | 1   |                                     |
| 8       | VXA4001  | TAKE-UP DRAW OUT ARM UNIT   | 1   |                                     | 42-4    | VMB1378     | POST SPRING                | 1   |                                     |
| 8-1     | VMB2131  | TAKE-UP TENSION CHARGE      | 1   |                                     | 42-5    | VXL1991     | TAKE-UP TENSION ARM UNIT   | 1   |                                     |
|         |          | SPRING                      |     |                                     | 43      | VXL1320     | SUPPLY TENSION ARM UNIT    | 1   |                                     |
| 9       | VXA3994  | TAKE-UP DRAW-UP DRIVE       | 1   |                                     | 43-1    | VMS4572     | UPPER FLANGE (P2)          | 1   |                                     |
|         |          | LEVER UNIT                  |     |                                     | 43-2    | VXP0820     | POST ROLLER (A) UNIT       | 1   |                                     |
| 12      | VXD0126  | TAKE-UP TENSION HOUSING     | 1   |                                     | 43-3    | VMB1378     | POST SPRING                | 1   |                                     |
| 13      | VXD0794  | BEARING RETAINER            | 2   |                                     | 43-4    | VMS2801     | LOWER FLANGE (P2)          | 1   |                                     |
| 14      | VMB1377  | POST SPRING                 | 1   |                                     | 43-5    | VXD0119     | SUPPLY TENSION LEAF SPRING | 1   |                                     |
| 15      | VXA4003  | P1 ARM DRIVE ROD II UNIT    | 1   |                                     | 44      | VXL1323     | DRAW-OUT ARM UNIT          | 1   |                                     |
| 17      | VXR0206  | RING ROLLER UNIT            | 1   |                                     | 44-1    | VMS3639     | UPPER FLANGE (P1)          | 1   |                                     |
| 17-1    | VDP1360  | RING ROLLER                 | 1   |                                     | 44-2    | VXP0820     | POST ROLLER (A) UNIT       | 1   |                                     |
| 17-2    | VDB1079  | RING ROLLER BOSS            | 1   |                                     | 44-3    | VMS2800     | LOWER FLANGE (P3)          | 1   |                                     |
| 17-3    | VXA4252  | RING ROLLER (1) UNIT        | 1   |                                     | 44-4    | VMB1378     | POST SPRING                | 1   |                                     |
| 20      | VDP1360  | RING ROLLER                 | 2   |                                     | 45      | VXL1994     | CLEANER ARM (A) UNIT       | 1   |                                     |
| 21      | VDB1079  | RING ROLLER BOSS            | 2   |                                     | 46      | VML2393     | CLEANER ARM (B)            | 1   |                                     |
| 22      | VMS3712  | UPPER FLANGE (P4)           | 1   |                                     | 47      | VMB2128     | ROLLER PRESSURE SPRING     | 1   |                                     |
| 23      | VXP0824  | LIMITER ROLLER (B) UNIT     | 1   |                                     | 48      | VMB2129     | ROLLER SPRING              | 1   |                                     |
| 24      | VMS2806  | POST BEARING RETAINER (A)   | 1   |                                     | 49      | VMB1379     | POST SPRING (P3)           | 1   |                                     |
|         |          | (P4)                        |     |                                     | 50      | VXD1161     | P4 BEARING PRESSURE        | 2   |                                     |
| 25      | VMB1379  | POST SPRING (P3)            | 1   |                                     | 51      | VDB0778     | BEARING                    | 2   |                                     |
| 26      | VXD0237  | P1 ARM DRIVE ROD (1)        | 1   |                                     | 52      | VDP1321     | CLEANER ROLLER             | 1   |                                     |
| 27      | VMB1362  | P1 ARM DRAW-OUT SPRING      | 1   |                                     | 53      | VMT0321     | CLEANER                    | 1   |                                     |
| 28      | VMA8178  | TAKE-UP TENSION REGULATING  | 1   |                                     | 54      | VXJ0096     | CLEANER SOLENOID           | 1   |                                     |
|         |          | PLATE                       |     |                                     | 55      | VXA4016     | CLEANER BASE UNIT          | 1   |                                     |
| 29      | VXD0596  | TAKE-UP TENSION LEAF SPRING | 1   |                                     | 56      | VXA4013     | T-STOPPER PIN BASE UNIT    | 1   |                                     |
| 30      | VMA8161  | FIXING PLATE                | 1   |                                     |         |             |                            |     |                                     |
| 31      | VMA6652  | TURN ROLLER LIFTER          | 1   |                                     |         |             |                            |     |                                     |
| 32      | VML1780  | STOPPER ARM                 | 1   |                                     |         |             |                            |     |                                     |
| 33      | VEK3785  | TAKE-UP MAGNETIC SENSOR     | 1   |                                     |         |             |                            |     |                                     |
|         |          | UNIT                        |     |                                     | 101     | KYN26+P5FZ5 | SCREW                      | 2   |                                     |
| 34      | VXA4002  | STOPPER ARM UNIT            | 1   |                                     | 102     | KYN26+C4    | SCREW                      | 3   |                                     |
| 35      | VX40236  | DRAW-OUT ROD                | 1   |                                     | 103     | KXGV93D13G  | WASHER                     | 2   |                                     |
| 37      | VEG0780  | DRUM UNIT                   | 1   | AU-65-P                             | 104     | KYNV26+K8   | SCREW                      | 2   |                                     |
| 37      | VEG0837  | DRUM UNIT                   | 1   | AU-65-E                             | 105     | KTV3+6F     | SCREW                      | 7   |                                     |
| 37      | VEG0806  | DRUM UNIT                   | 1   | AU-63-P                             | 106     | KYNV26+K5   | SCREW                      | 2   |                                     |
| 37      | VEG0839  | DRUM UNIT                   | 1   | AU-63-E                             | 107     | KYNV3+K108  | SCREW                      | 6   |                                     |
| 37      | VEG0804  | DRUM UNIT                   | 1   | AU-62-P                             | 108     | KXE26W3FP   | HEX HEAD SCREW             | 2   |                                     |
| 37      | VEG0838  | DRUM UNIT                   | 1   | AU-62-E                             | 109     | KXE26A4FP   | HEX HEAD SCREW             | 1   |                                     |
| 37-1    | VEH0475  | UPPER DRUM UNIT             | 1   | AU-65-P,AU-62-P                     | 110     | KXC25FP     | E RING                     | 4   |                                     |
| 37-1    | VEH0482  | UPPER DRUM UNIT             | 1   | AU-63-P                             | 111     | KXE2C25FP   | HEX HEAD SCREW             | 8   |                                     |
| 37-1    | VEH0494  | UPPER DRUM UNIT             | 1   | AU-65-E,AU-62-E                     | 112     | KXC8FP      | E RING                     | 1   |                                     |
| 37-1    | VEH0495  | UPPER DRUM UNIT             | 1   | AU-63-E                             | 113     | KXC2FP      | E RING                     | 6   |                                     |
| 37-2    | VMD1572  | RT ARM BLOCK                | 1   |                                     | 114     | KSN2+6      | SCREW                      | 2   |                                     |
| 37-3    | VEK2372  | DEW SENSOR                  | 1   |                                     | 115     | KYN2+C4     | SCREW                      | 2   |                                     |
| 37-4    | VSC1334  | SHIELD PLATE                | 1   |                                     | 116     | KXGV3Y6G    | WASHER                     | 1   |                                     |
| 37-5    | VAG0273  | TAPE GUIDE                  | 1   |                                     | 117     | KXGV25D5G   | WASHER                     | 2   |                                     |
| 37-6    | VSC2693  | SHIELD BAND                 | 1   |                                     | 118     | KXGV10D15G  | WASHER                     | 2   |                                     |
| 37-7    | VXS0102  | BRUSH UNIT                  | 1   | AU-63-P,AU-63-E                     | 120     | KXGV10Y15G  | WASHER                     | 1   |                                     |
| 37-8    | VXS0092  | SLIP-RING UNIT              | 1   | AU-63-P,AU-63-E                     | 122     | KXG3        | WASHER                     | 3   |                                     |
| 37-9    | VEG0781  | LOWER DRUM UNIT             | 1   | AU-65-P,AU-65-E                     | 123     | KXC7FP      | E RING                     | 1   |                                     |
| 37-9    | VEG0812  | LOWER DRUM UNIT             | 1   | AU-63-P,AU-63-E                     | 124     | KXGV3Y6G    | WASHER                     | 1   |                                     |
| 37-9    | VEG0809  | LOWER DRUM UNIT             | 1   | AU-62-P,AU-62-E                     | 126     | KXE2D3FP    | HEX HEAD SCREW             | 2   |                                     |
| 37-10   | VMD1612  | BRUSH COVER                 | 1   | AU-63-P,AU-63-E                     | 127     | KXGV4D9G    | WASHER                     | 1   |                                     |
| 37-12   | VMA8157  | EARTH ANGLE                 | 1   | AU-65-P,AU-65-E,<br>AU-62-P,AU-62-E | 128     | KXGV3D8G    | WASHER                     | 1   |                                     |
| 37-13   | VXS0024  | EARTH BRUSH                 | 1   | AU-65-P,AU-65-E,<br>AU-62-P,AU-62-E | 129     | KXGV3Y8G    | WASHER                     | 1   |                                     |
|         |          |                             |     |                                     | 130     | KTV3+6FF2   | SCREW                      | 3   |                                     |
| 40      | VXP1182  | LOADING RING UNIT           | 1   |                                     | 131     | KXGV3D6G    | WASHER                     | 4   |                                     |
| 40-1    | VMS3638  | UPPER FLANGE                | 2   |                                     | 132     | KXE2C8FP    | HEX HEAD SCREW             | 1   |                                     |
| 40-2    | VXP0821  | POST ROLLER (B) UNIT        | 2   |                                     | 133     | KYN3+P6FZ5  | SCREW                      | 2   |                                     |
| 40-3    | VMS2803  | LOWER FLANGE                | 2   |                                     | 134     | KYN4+C108   | SCREW                      | 3   |                                     |
| 40-4    | VMB1377  | POST SPRING                 | 2   |                                     | 135     | KYN2+C3     | SCREW                      | 3   |                                     |
| 40-5    | VMD1406  | PINCH ARM SHAFT COLLAR      | 1   |                                     | 136     | KXGV3D6G    | WASHER                     | 1   |                                     |
| 40-6    | VMB1373  | PINCH ROLLER RETURN SPRING  | 1   |                                     | 137     | KXC15FP     | E-RING                     | 1   |                                     |
| 40-7    | VXL1288  | PINCH ROLLER ARM UNIT       | 1   |                                     | 138     | KYN3+C6     | SCREW                      | 4   |                                     |
| 40-8    | VMB1796  | TR ARM RETURN SPRING II     | 1   |                                     | 139     | KYN3+A10BW  | SCREW                      | 2   |                                     |
| 41      | VXL1754  | TURN ROLLER ARM UNIT        | 1   |                                     | 140     | KYN2+C3     | SCREW                      | 1   |                                     |
|         |          |                             |     |                                     | 142     | KYN3+A4     | SCREW                      | 1   | AU-65-P,AU-65-E,<br>AU-62-P,AU-62-E |

To be continued on the next page.

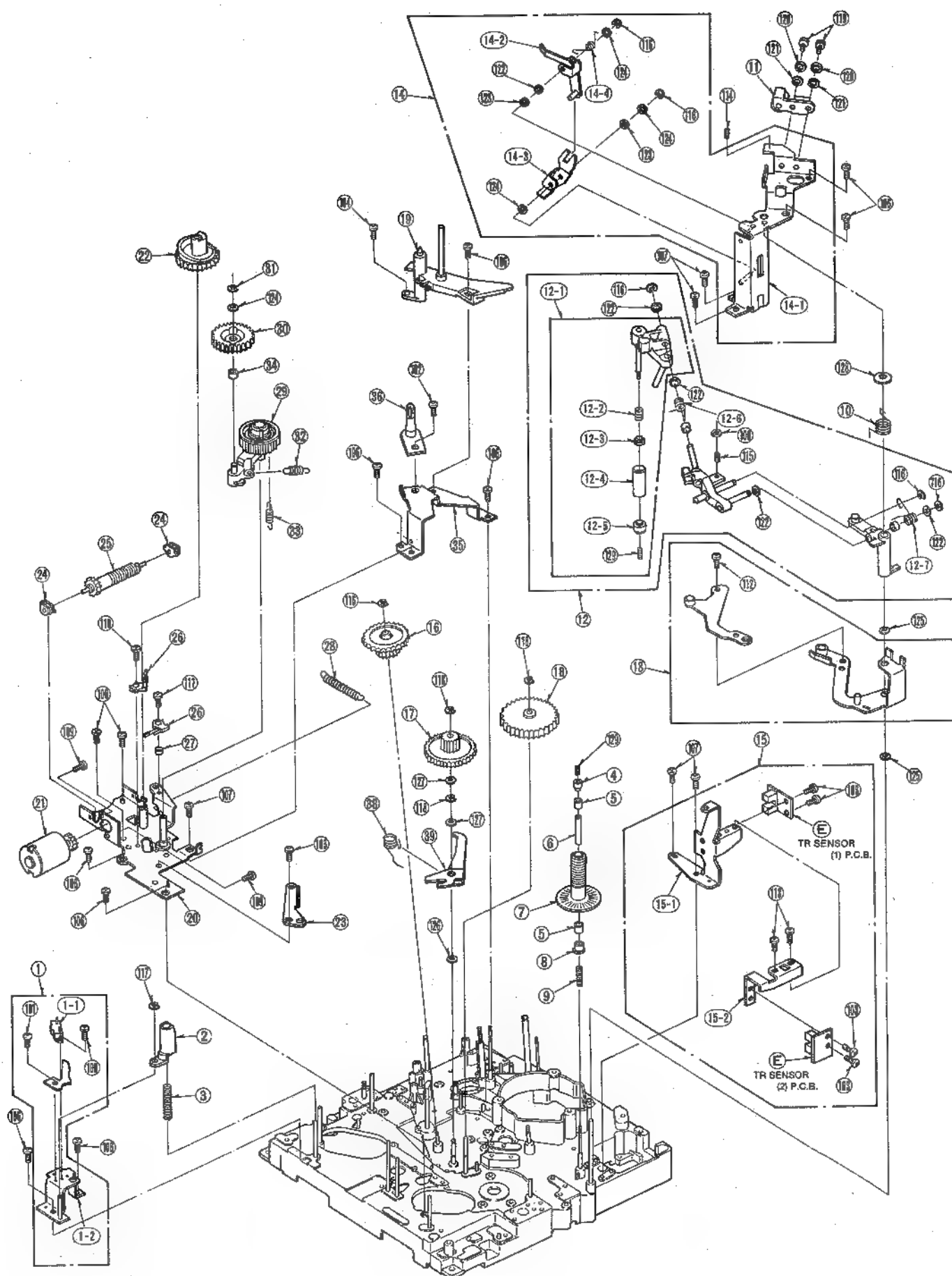
| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks          |
|---------|----------|-------------------------|-----|------------------|
| 143     | XKN26+C6 | SCREW                   | 3   |                  |
| 144     | XSN2+4   | SCREW                   | 2   |                  |
| 145     | XUC3FP   | E-RING                  | 4   |                  |
| 146     | XWGV4D7G | WASHER                  | 2   |                  |
| 147     | XWGV4F7G | WASHER                  | 2   |                  |
| 148     | XWGV3Z6G | WASHER                  | 1   |                  |
| 149     | XYN0015  | SCREW                   | 1   | NU-63-P, NU-63-E |

## MECHANICAL CHASSIS ASSEMBLY (2)

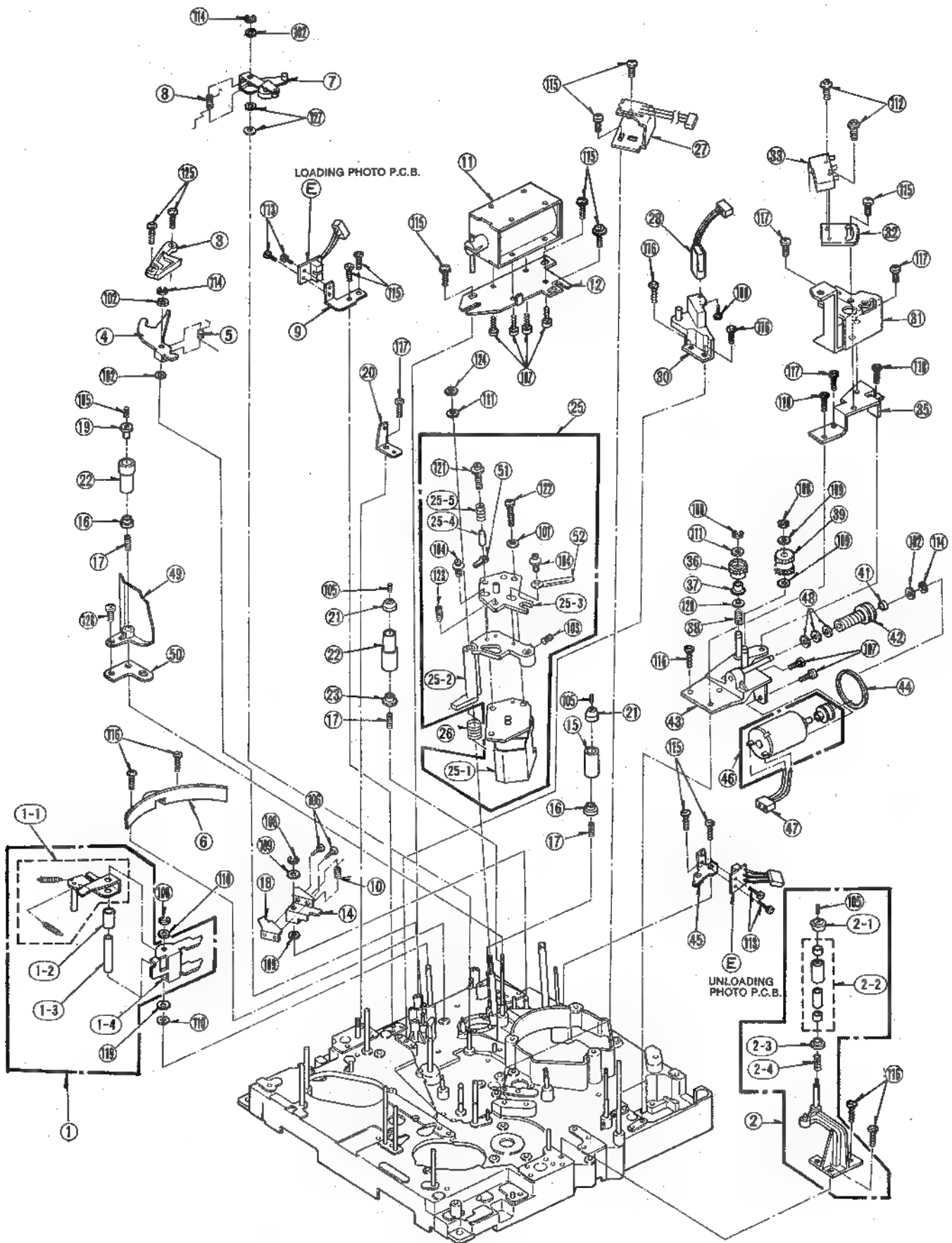
| Ref.No. | Part No.  | Part Name & Description                | Pcs | Remarks |
|---------|-----------|--|-----|---------|
| 1       | VES0565   | DETECTION BIT (L) UNIT                 | 1   |         |
| 1-1     | EVQWUS002 | CASSETTE ID MODE SWITCH                | 1   |         |
| 1-2     | VXA4000   | DETECTION BIT (L) (1) UNIT             | 1   |         |
| 2       | VMB1147   | CASSETTE GUIDE S                       | 1   |         |
| 3       | VMB1832   | CASSETTE GUIDE S SPRING                | 1   |         |
| 4       | VHN0046   | TIMER ROLLER NUT                       | 1   |         |
| 5       | VDB0778   | BEARING                                | 2   |         |
| 6       | VHN0801   | TIMER ROLLER INNER COLLAR              | 1   |         |
| 7       | VXP1183   | TIMER ROLLER UNIT                      | 1   |         |
| 8       | VMS2806   | POST BEARING RETAINER (A)<br>(P4)      | 1   |         |
| 9       | VMB1379   | POST SPRING (F3)                       | 1   |         |
| 10      | VMB1801   | P10 RETURN SPRING                      | 1   |         |
| 11      | VXA2525   | TILT ADJUST BASE UNIT                  | 1   |         |
| 12      | VXL1786   | SUB-LOADING ARM UNIT                   | 1   |         |
| 12-1    | VXR0131   | IP BASE UNIT                           | 1   |         |
| 12-2    | VMB1376   | POST SPRING                            | 1   |         |
| 12-3    | VMS2870   | BEARING RETAINER                       | 1   |         |
| 12-4    | VXP0822   | POST BEARING (C) UNIT                  | 1   |         |
| 12-5    | VMS3638   | UPPER FLANGE                           | 1   |         |
| 12-6    | VMB1368   | TILT RETURN SPRING                     | 1   |         |
| 12-7    | VMB1375   | IP ARM RETURN SPRING                   | 1   |         |
| 13      | VXL2065   | ROLLER ARM (C) UNIT                    | 1   |         |
| 14      | VXA3990   | SUB-LOADING COVER ASSEMBLY             | 1   |         |
| 14-1    | VXA3996   | SUB-LOADING COVER (1) UNIT             | 1   |         |
| 14-2    | VXL1294   | UPRIGHT LEVER UNIT                     | 1   |         |
| 14-3    | VML1694   | UPRIGHT DRIVE LEVER                    | 1   |         |
| 14-4    | VMB1762   | UPRIGHT LEVER RETURN SPRING            | 1   |         |
| 15      | VXA3989   | TR SENSOR ANGLE UNIT                   | 1   |         |
| 15-1    | VMB171    | TR SENSOR ANGLE (I)                    | 1   |         |
| 15-2    | VMB172    | TR SENSOR ANGLE (II)                   | 1   |         |
| 16      | VDO667    | RING JUNCTION GEAR (I)                 | 1   |         |
| 17      | VDO668    | RING JUNCTION GEAR (II)                | 1   |         |
| 18      | VDO669    | GEAR WITH CMH                          | 1   |         |
| 19      | VXA011    | PINCH ROLLER GUIDE UNIT                | 1   |         |
| 20      | VXA3997   | CASSETTE REEL BASE S (I)<br>UNIT       | 1   |         |
| 21      | VEM0264   | MOTOR UNIT                             | 1   |         |
| 22      | VDO666    | CAM WORM WHEEL                         | 1   |         |
| 23      | VMB170    | POSITIONING PLATE                      | 1   |         |
| 24      | VDB0833   | WORM BEARING                           | 2   |         |
| 25      | VXP1019   | CASSETTE S WORM SHAFT UNIT             | 1   |         |
| 26      | VSH0026   | LEAF SWITCH                            | 2   |         |
| 27      | VW0400    | LEAF SWITCH SPACER                     | 1   |         |
| 28      | VMB2132   | BALANCING SPRING 1                     | 1   |         |
| 29      | VXA3999   | CASSETTE S REEL STAND BASE<br>(1) UNIT | 1   |         |
| 30      | VDO670    | CASSETTE S REEL<br>INTERMEDIATE GEAR   | 1   |         |
| 31      | VMB0653   | OUT WASHER                             | 1   |         |
| 32      | VMB2140   | INTERMEDIATE GEAR SPRING               | 1   |         |
| 33      | VMB2141   | CASSETTE S REEL STAND<br>SPRING        | 1   |         |
| 34      | VDB0429   | BEARING                                | 1   |         |
| 35      | VMB177    | LAMP MOUNT BASE                        | 1   |         |
| 36      | VEK3493   | LAMP MOUNT (1) UNIT                    | 1   |         |
| 38      | VMB2135   | SUPPLY DRIVE ARM RETURN<br>SPRING      | 1   |         |
| 39      | VML2387   | SUPPLY TENSION DRIVE ARM               | 1   |         |

| Ref.No. | Part No.   | Part Name & Description | Pcs | Remarks |
|---------|------------|-------------------------|-----|---------|
| 100     | XNG3CS     | NUT                     | 1   |         |
| 101     | XSN2+3     | SCREW                   | 1   |         |
| 102     | XSS26+5    | SCREW                   | 1   |         |
| 103     | XTV26+4F   | SCREW                   | 1   |         |
| 104     | XTV26+8F   | SCREW                   | 1   |         |
| 106     | XTV3+6F    | SCREW                   | 11  |         |
| 107     | XTV3+8F    | SCREW                   | 5   |         |
| 108     | XQN16+A3   | SCREW                   | 1   |         |
| 109     | XYN2+C4    | SCREW                   | 2   |         |
| 110     | XYN2+C5    | SCREW                   | 1   |         |
| 111     | XYN2+C8    | SCREW                   | 1   |         |
| 112     | XYN26+F5PZ | SCREW                   | 1   |         |
| 113     | XYN26+F6PZ | SCREW                   | 2   |         |
| 114     | XXE3A6FPS  | HEX HEAD SCREW          | 1   |         |
| 115     | XXE3C6FP   | HEX HEAD SCREW          | 1   |         |
| 116     | XUC25FP    | E-RING                  | 1   |         |
| 117     | XUC2FP     | E-RING                  | 1   |         |
| 118     | XUC3FP     | E-RING                  | 3   |         |
| 119     | XVE3B6FPS  | HEX HEAD SCREW          | 2   |         |
| 120     | XWA3B      | WASHER                  | 2   |         |
| 121     | XWE3       | WASHER                  | 2   |         |
| 122     | XWGV3D6G   | WASHER                  | 1   |         |
| 123     | XWGV3F6G   | WASHER                  | 2   |         |
| 124     | XWGV3Y6G   | WASHER                  | 4   |         |
| 125     | XWGV4D7G   | WASHER                  | 2   |         |
| 126     | XWGV4F7G   | WASHER                  | 1   |         |
| 127     | XWGV4Y7G   | WASHER                  | 2   |         |
| 128     | XWGV4Y9G   | WASHER                  | 1   |         |
| 129     | XXE2C25FP  | HEX HEAD SCREW          | 2   |         |

## MECHANICAL CHASSIS ASSEMBLY (2)



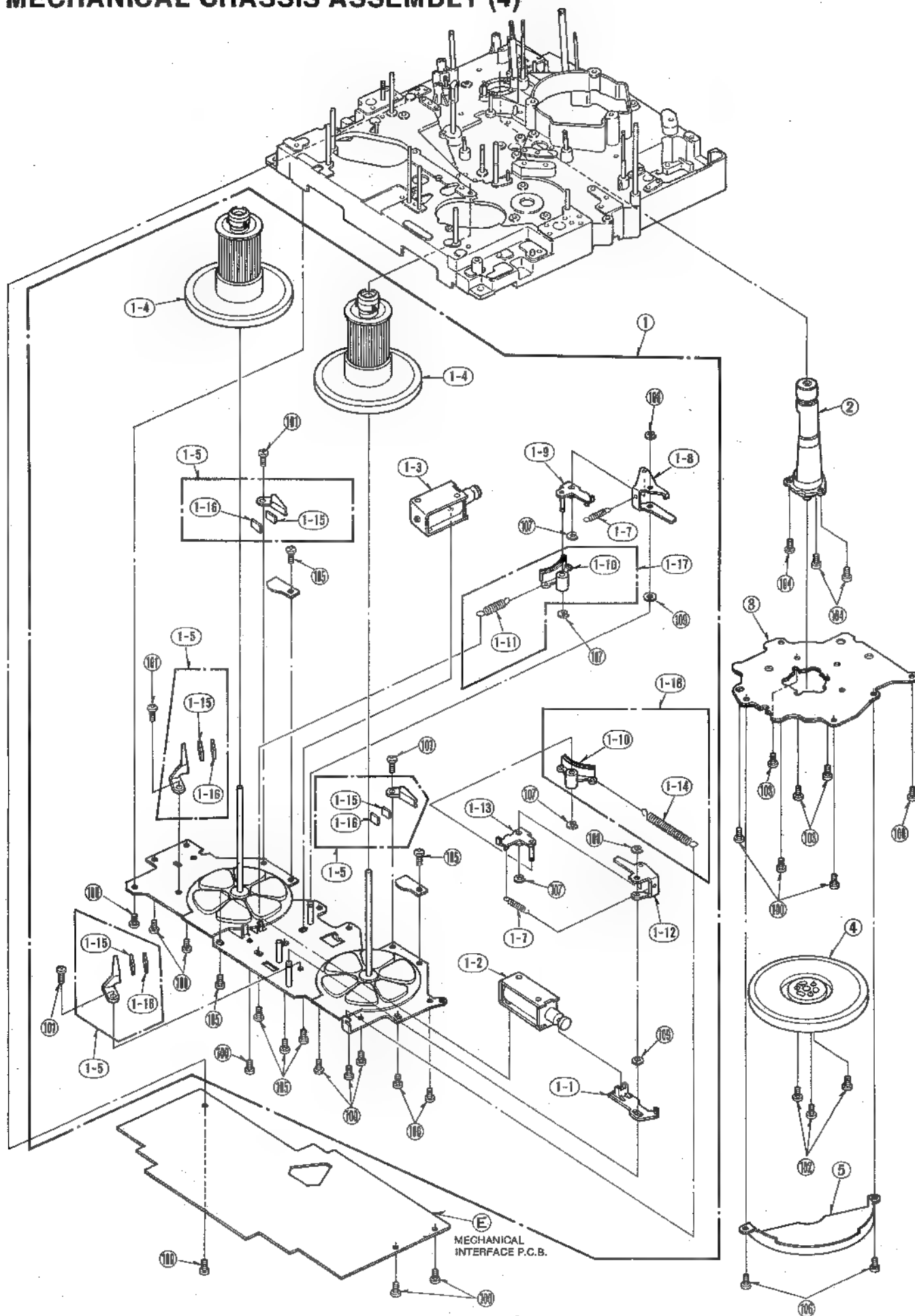
# MECHANICAL CHASSIS ASSEMBLY (3)



# MECHANICAL CHASSIS ASSEMBLY (3)

| Ref. No. | Part No. | Part Name & Description           | Pcs | Remarks                            | Ref. No. | Part No.  | Part Name & Description | Pcs | Remarks          |
|----------|----------|-----------------------------------|-----|------------------------------------|----------|-----------|-------------------------|-----|------------------|
| 1        | VXL1679  | PINCH PRESSURE LEVER UNIT         | 1   |                                    | 52       | VJR3      | CLAMPER                 | 1   | AU-65-P, AU-65-E |
| 1-1      | VXL1680  | PINCH DRIVE ARM UNIT              | 1   |                                    |          |           |                         |     |                  |
| 1-2      | VMD0800  | PINCH COLLAR (3)                  | 1   |                                    |          |           |                         |     |                  |
| 1-3      | VMD0799  | PINCH COLLAR (2)                  | 1   |                                    |          |           |                         |     |                  |
| 1-4      | VML1675  | PINCH PRESSURE LEVER              | 1   |                                    | 100      | XYN2+C5   | SCREW                   | 1   |                  |
| 2        | VXA3226  | CASSETTE POSITIONING BASE         | 1   |                                    | 101      | XWG26     | WASHER                  | 1   |                  |
|          |          | UNIT                              |     |                                    | 102      | XMGV3D6G  | WASHER                  | 4   |                  |
| 2-1      | VMS3638  | UPPER FLANGE                      | 1   |                                    | 103      | XXE3C6FF  | HEX HEAD SCREW          | 1   |                  |
| 2-2      | VXPO621  | POST ROLLER (B) UNIT              | 1   |                                    | 104      | XYN26+P6  | SCREW                   | 2   |                  |
| 2-3      | VMS2803  | LOWER FLANGE                      | 1   |                                    | 105      | XXE2C25FF | HEX HEAD SCREW          | 4   |                  |
| 2-4      | VMB1376  | POST SPRING                       | 1   |                                    | 106      | XYN26+C4  | SCREW                   | 2   |                  |
| 3        | VMA7289  | STOPPER RETAINER                  | 1   |                                    | 107      | XYN3+C5S  | SCREW                   | 6   |                  |
| 4        | VML1702  | TR STOPPER LEVER                  | 1   |                                    | 108      | XUC3FP    | E RING                  | 4   |                  |
| 5        | VMB1372  | STOPPER LEVER RETURN SPRING       | 1   |                                    | 109      | XMGV4D7G  | WASHER                  | 4   |                  |
| 6        | VMD1412  | TURN ROLLER GUIDE A               | 1   |                                    | 110      | XMGV4D9G  | WASHER                  | 2   |                  |
| 7        | VXL1995  | DRIVE ARM UNIT                    | 1   |                                    | 111      | XWE4      | WASHER                  | 2   |                  |
| 8        | VMB2134  | DRIVE ARM RETURN SPRING           | 1   |                                    | 112      | XYN2+F10  | SCREW                   | 2   |                  |
| 9        | VMA6624  | LOADING PHOTO PLATE               | 1   |                                    | 113      | XIV26+4F  | SCREW                   | 4   |                  |
| 10       | VMB1345  | UNLOADING DETECTION RETURN SPRING | 1   |                                    | 114      | XUC25FF   | E RING                  | 3   |                  |
|          |          |                                   |     |                                    | 115      | XIV3+6FFZ | SCREW                   | 10  |                  |
| 11       | VJS0069  | PINCH SOLENOID                    | 1   |                                    | 116      | XIV3+8F   | SCREW                   | 7   |                  |
| 12       | VMA6608  | PINCH SOLENOID BASE               | 1   |                                    | 117      | XIV3+6F   | SCREW                   | 4   |                  |
| 14       | VML2091  | UNLOADING DETECTION ARM           | 1   |                                    | 118      | XIV3+10F  | SCREW                   | 2   |                  |
| 15       | VXPO819  | POST ROLLER (A1) UNIT             | 1   |                                    | 119      | XMGV5D9G  | WASHER                  | 1   |                  |
|          |          | (P6)                              |     |                                    | 120      | XWG4FC    | WASHER                  | 1   |                  |
| 16       | VMS2800  | LOWER FLANGE (P3)                 | 2   |                                    | 121      | XYN3+F18  | SCREW                   | 1   |                  |
| 17       | VMB1379  | POST SPRING (P3)                  | 3   |                                    | 122      | XSN26+12S | SCREW                   | 1   |                  |
| 18       | VMA6685  | TURN ROLLER RETAINER              | 1   |                                    | 123      | XXE3A8FP  | HEX HEAD SCREW          | 1   |                  |
| 19       | VMS2807  | POST BEARING RETAINER (B)         | 1   |                                    | 124      | XNG4ES    | NUT                     | 1   |                  |
|          |          | (P3)                              |     |                                    | 125      | XIV26+6F  | SCREW                   | 2   |                  |
| 20       | VMA6625  | PINCH RETURN SPRING HOOK          | 1   |                                    | 127      | XMGV3F6G  | WASHER                  | 2   |                  |
| 21       | VMS3712  | UPPER FLANGE (P4)                 | 2   |                                    | 128      | XSN26+4   | SCREW                   | 1   |                  |
| 22       | VXPO823  | LIMITER ROLLER (A) UNIT           | 2   |                                    |          |           |                         |     |                  |
|          |          | (P3)                              |     |                                    |          |           |                         |     |                  |
| 23       | VMS2806  | POST BEARING RETAINER (A)         | 1   |                                    |          |           |                         |     |                  |
|          |          | (P4)                              |     |                                    |          |           |                         |     |                  |
| 25       | VED0140  | A/C HEAD UNIT                     | 1   | AU-65-P, AU-65-E                   |          |           |                         |     |                  |
| 25       | VED0142  | A/C HEAD UNIT                     | 1   | AU-63-P, AU-63-E, AU-62-P, AU-62-E |          |           |                         |     |                  |
| 25-1     | VBR0167  | A/C HEAD                          | 1   | AU-65-P, AU-65-E                   |          |           |                         |     |                  |
| 25-1     | VBR0168  | A/II HEAD                         | 1   | AU-63-P, AU-63-E, AU-62-P, AU-62-E |          |           |                         |     |                  |
| 25-2     | VMD1579  | A/C HEAD HEIGHT ADJUSTMENT BASE   | 1   |                                    |          |           |                         |     |                  |
| 25-3     | VXA4085  | HEAD MOUNTING BASE UNIT           | 1   |                                    |          |           |                         |     |                  |
| 25-4     | VNX1441  | ADJUST LOCK COLLAR                | 1   |                                    |          |           |                         |     |                  |
| 25-5     | VMB1843  | ADJUST SPRING                     | 1   |                                    |          |           |                         |     |                  |
| 26       | VMB2147  | HEAD SPRING                       | 1   |                                    |          |           |                         |     |                  |
| 27       | VXR3784  | SUPPLY MAGNETIC SENSOR            | 1   |                                    |          |           |                         |     |                  |
|          |          | HOVVI UNIT                        |     |                                    |          |           |                         |     |                  |
| 28       | VBS0024  | FE HEAD                           | 1   | AU-65-P, AU-65-E                   |          |           |                         |     |                  |
| 28       | VBS0043  | FE HEAD                           | 1   | AU-63-P, AU-63-E, AU-62-P, AU-62-E |          |           |                         |     |                  |
| 30       | VMA7293  | FE HEAD BASE                      | 1   |                                    |          |           |                         |     |                  |
| 31       | VMA7295  | MICROSWITCH BASE                  | 1   |                                    |          |           |                         |     |                  |
| 32       | VMA6715  | MICROSWITCH REGULATING PLATE      | 1   |                                    |          |           |                         |     |                  |
| 33       | VSM0042  | MICROSWITCH                       | 1   |                                    |          |           |                         |     |                  |
| 35       | VMA6805  | MOTOR HOLDER COVER                | 1   |                                    |          |           |                         |     |                  |
| 36       | VDO0215  | RING DRIVE GEAR                   | 1   |                                    |          |           |                         |     |                  |
| 37       | VMD1405  | DRIVE GEAR SLEEVE A               | 1   |                                    |          |           |                         |     |                  |
| 38       | VMB1343  | DRIVE GEAR PRESSURE SPRING        | 1   |                                    |          |           |                         |     |                  |
| 39       | VDO0216  | JUNCTION GEAR                     | 1   |                                    |          |           |                         |     |                  |
| 41       | VDB0899  | BEARING                           | 1   |                                    |          |           |                         |     |                  |
| 42       | VXP1056  | WORM PULLEY UNIT                  | 1   |                                    |          |           |                         |     |                  |
| 43       | VKA2287  | LOADING MOTOR HOLDER UNIT         | 1   |                                    |          |           |                         |     |                  |
| 44       | VMD156   | LOADING BELT                      | 1   |                                    |          |           |                         |     |                  |
| 45       | VMA6623  | UNLOADING PHOTO MOUNT             | 1   |                                    |          |           |                         |     |                  |
| 46       | VMD323   | LOADING MOTOR UNIT                | 1   |                                    |          |           |                         |     |                  |
| 46-1     | VMD0030  | LOADING MOTOR                     | 1   |                                    |          |           |                         |     |                  |
| 47       | VEE3971  | CONNECTOR UNIT                    | 1   |                                    |          |           |                         |     |                  |
| 48       | VDB0371  | THRUST BEARING                    | 3   |                                    |          |           |                         |     |                  |
| 49       | VMD1596  | DO PROTECTOR COVER                | 1   |                                    |          |           |                         |     |                  |
| 50       | VMA8285  | DO PROTECTOR COVER BASE           | 1   |                                    |          |           |                         |     |                  |
| 51       | VJR3     | CLAMPER                           | 1   |                                    |          |           |                         |     |                  |

# MECHANICAL CHASSIS ASSEMBLY (4)

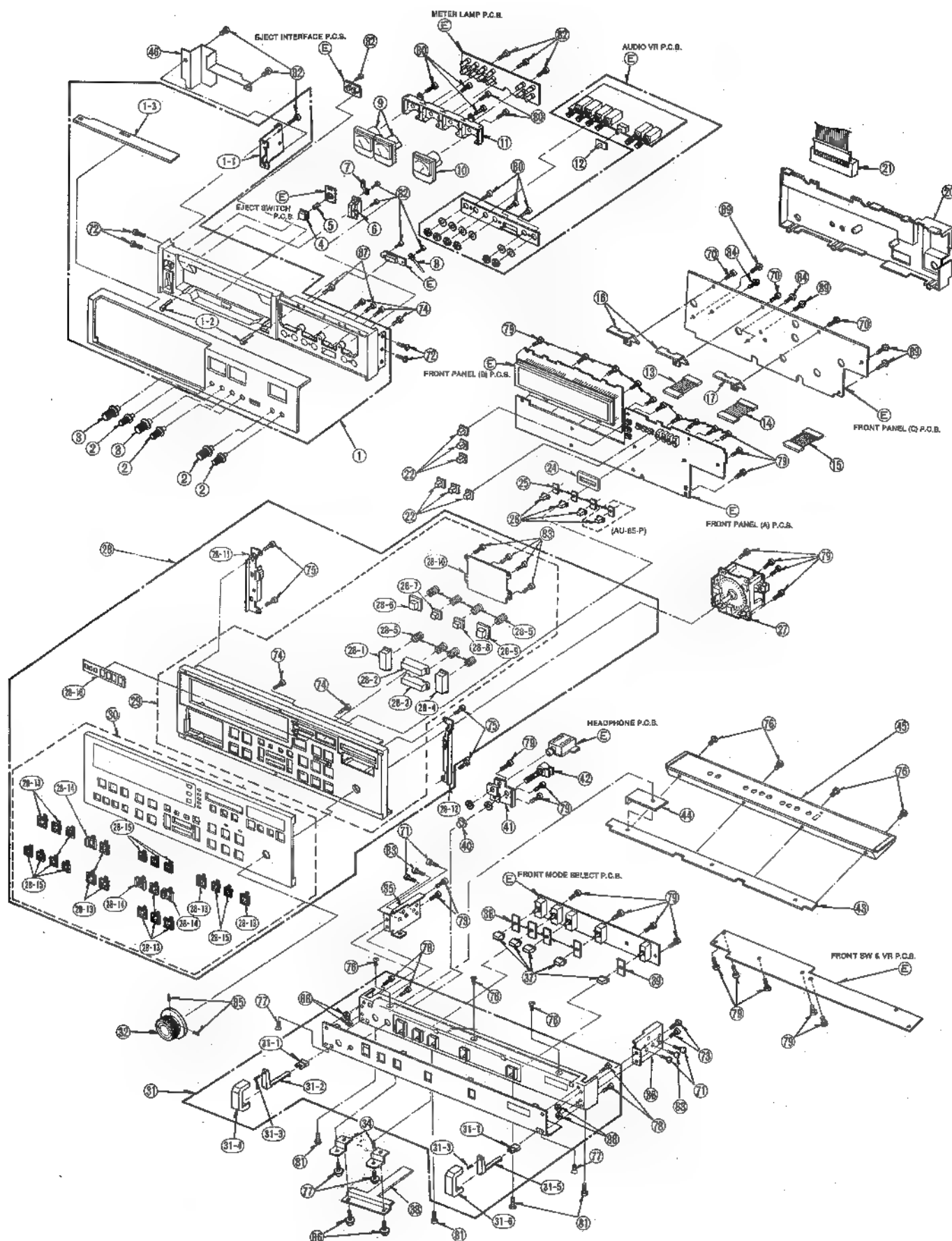




## MECHANICAL CHASSIS ASSEMBLY (4)

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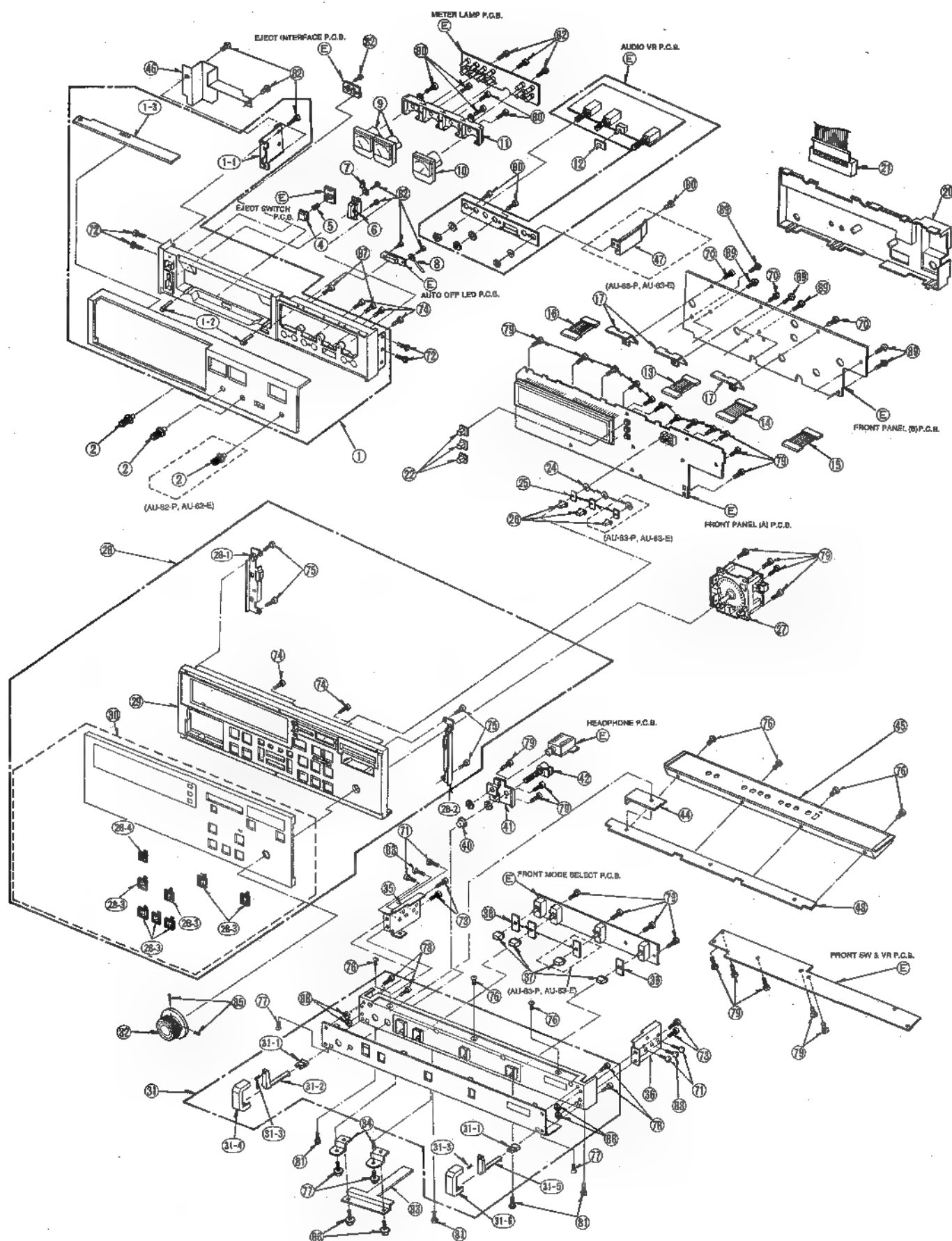
# FRONT PANEL ASSEMBLY (AU-65-P, AU-65-E)



## FRONT PANEL ASSEMBLY (AU-65-P, AU-65-E)

| Ref.No. | Part No.     | Part Name & Description    | Pos | Remarks       | Ref.No. | Part No.   | Part Name & Description | Pos | Remarks |
|---------|--------------|----------------------------|-----|---------------|---------|------------|-------------------------|-----|---------|
| 1       | VYP2975      | UPPER FRONT PANEL (1) UNIT | 1   |               |         |            |                         |     |         |
| 1-1     | VMP1006      | GND ANGLE                  | 1   |               |         |            |                         |     |         |
| 1-2     | VGR1511      | CASSETTE GUIDE             | 2   |               | 70      | XSB3+5S    | SCREW                   | 3   |         |
| 1-3     | VMP0830      | FRONT (U) PROTECTOR ANGLE  | 1   |               | 71      | XSB3+6S    | SCREW                   | 4   |         |
| 2       | VXU0768      | VR KNOB (S)                | 4   |               | 72      | XSB3+8FZS  | SCREW                   | 4   |         |
| 3       | VXU0766      | VR KNOB (B)                | 2   |               | 73      | XSB3+8S    | SCREW                   | 4   |         |
| 4       | VGU3394      | EJECT BUTTON               | 1   |               | 74      | XSN3+6S    | SCREW                   | 5   |         |
| 5       | VMB1730      | EJECT BUTTON SPRING        | 1   |               | 75      | XSN3+8S    | SCREW                   | 4   |         |
| 6       | EST15372T    | POWER SWITCH               | 1   | AU-65-P       | 76      | XSS3+6PCS  | SCREW                   | 7   |         |
| 7       | EST15367S    | POWER SWITCH               | 1   | AU-65-B       | 77      | XSS3+8PCS  | SCREW                   | 4   |         |
| 7       | VMP1008      | EJECT SWITCH ANGLE         | 1   |               | 78      | XSS3+10S   | SCREW                   | 4   |         |
| 8       | VJR3         | CLIMPER                    | 1   |               | 79      | XTM4+10G   | SCREW                   | 28  |         |
| 9       | VSE0101      | AUDIO METER                | 2   |               | 80      | XTM4+10J   | SCREW                   | 8   |         |
| 10      | VSE0109      | TRACKING METER             | 1   |               | 81      | XTS3+8GFC  | SCREW                   | 4   |         |
| 11      | VCG1051      | METER COVER                | 1   |               | 82      | XTV3+8J    | SCREW                   | 11  |         |
| 12      | VGU2085      | SWITCH KNOB                | 1   |               | 83      | XTV3+10J   | SCREW                   | 2   |         |
| 13      | VEE3171      | CONNECTOR CABLE            | 1   |               | 84      | XTV4+15G   | SCREW                   | 2   |         |
| 14      | VEE3170      | CONNECTOR CABLE            | 1   |               | 85      | XDEV3+6FPS | HEX SCREW               | 2   |         |
| 15      | VEE3799      | CONNECTOR CABLE            | 1   |               | 86      | XYN3+FS    | SCREW                   | 2   |         |
| 16      | VMP0964      | P.C.B. SUPPORT ANGLE (A)   | 2   |               | 87      | XYN3+CL8S  | SCREW                   | 2   |         |
| 17      | VMP1926      | P.C.B. SUPPORT ANGLE (B)   | 1   |               | 88      | XNG3ES     | NUT                     | 4   |         |
| 20      | VMZ1160      | FRONT BOARD COVER          | 1   |               | 89      | XTV4+20G   | SCREW                   | 4   |         |
| 21      | VEE3224      | 20P FLAT CABLE             | 1   |               | 90      | XTV3+8G    | SCREW                   | 4   |         |
| 22      | VGU4359      | RESET BUTTON               | 6   |               |         |            |                         |     |         |
| 24      | VMK1328      | SLIDE SWITCH SPACER        | 1   |               |         |            |                         |     |         |
| 25      | VGH0520      | SWITCH COVER               | 4   | 3pcs: AU-65-E |         |            |                         |     |         |
| 26      | VGU2089      | SLIDE SWITCH KNOB          | 4   | 3pcs: AU-65-E |         |            |                         |     |         |
| 27      | VSR0083      | SEARCH DIAL                | 1   |               |         |            |                         |     |         |
| 28      | VYP2194      | FRONT PANEL (M) 1 UNIT     | 1   | AU-65-P       |         |            |                         |     |         |
| 28      | VYP3530      | FRONT PANEL (M) 1 UNIT     | 1   | AU-65-E       |         |            |                         |     |         |
| 28-1    | VGU4117      | EDIT IN BUTTON             | 1   |               |         |            |                         |     |         |
| 28-2    | VGU4116      | EDIT SET BUTTON            | 1   |               |         |            |                         |     |         |
| 28-3    | VGU4115      | GO-TO BUTTON               | 1   |               |         |            |                         |     |         |
| 28-4    | VGU4118      | EDIT OUT BUTTON            | 1   |               |         |            |                         |     |         |
| 28-5    | VMB1799      | SPRING                     | 8   |               |         |            |                         |     |         |
| 28-6    | VGU4119      | AUDIO IN BUTTON            | 1   |               |         |            |                         |     |         |
| 28-7    | VGU4114      | TRIM (-) BUTTON            | 1   |               |         |            |                         |     |         |
| 28-8    | VGU4113      | TRIM (+) BUTTON            | 1   |               |         |            |                         |     |         |
| 28-9    | VGU4120      | AUDIO OUT BUTTON           | 1   |               |         |            |                         |     |         |
| 28-10   | VMP1529      | EDIT BUTTON GUIDE          | 1   |               |         |            |                         |     |         |
| 28-11   | VMP0562      | PANEL HOLDER ANGLE (L)     | 1   |               |         |            |                         |     |         |
| 28-12   | VMP0561      | PANEL HOLDER ANGLE (R)     | 1   |               |         |            |                         |     |         |
| 28-13   | VGH1595      | SWITCH GUARD               | 11  |               |         |            |                         |     |         |
| 28-14   | VGH0206      | SWITCH GUARD               | 3   |               |         |            |                         |     |         |
| 28-15   | VGH1512      | SWITCH GUARD               | 10  |               |         |            |                         |     |         |
| 28-16   | VGH1492      | TC BUTTON NAME PLATE       | 1   | AU-65-P       |         |            |                         |     |         |
| 28-16   | VGH2627      | TC BUTTON NAME PLATE       | 1   | AU-65-E       |         |            |                         |     |         |
| 29      | VYP2203      | FRONT PANEL (M) 2 UNIT     | 1   |               |         |            |                         |     |         |
| 30      | VYP2204      | FRONT ALUMINUM PANEL UNIT  | 1   | AU-65-P       |         |            |                         |     |         |
| 30      | VYP3529      | FRONT ALUMINUM PANEL UNIT  | 1   | AU-65-E       |         |            |                         |     |         |
| 31      | VYP2977      | CONTROL PANEL (1) UNIT     | 1   |               |         |            |                         |     |         |
| 31-1    | VGF0147      | HANDLE COVER               | 2   |               |         |            |                         |     |         |
| 31-2    | VML1657      | LOCK RELEASE LEVER (L)     | 1   |               |         |            |                         |     |         |
| 31-3    | VMB1333      | SPRING                     | 2   |               |         |            |                         |     |         |
| 31-4    | VGH0111      | HANDLE (L)                 | 1   |               |         |            |                         |     |         |
| 31-5    | VML1656      | LOCK RELEASE LEVER (R)     | 1   |               |         |            |                         |     |         |
| 31-6    | VGH0110      | HANDLE (R)                 | 1   |               |         |            |                         |     |         |
| 32      | VXU0767      | SEARCH DIAL KNOB UNIT      | 1   |               |         |            |                         |     |         |
| 33      | VMP0861      | PULL GUIDE ANGLE           | 1   |               |         |            |                         |     |         |
| 34      | VMP1061      | PULL GUIDE HOLDER ANGLE    | 2   |               |         |            |                         |     |         |
| 35      | VMP1057      | RAIL HOLDER ANGLE (L)      | 1   |               |         |            |                         |     |         |
| 35      | VMP1056      | RAIL HOLDER ANGLE (R)      | 1   |               |         |            |                         |     |         |
| 37      | VGU2080      | SWITCH KNOB                | 5   |               |         |            |                         |     |         |
| 38      | VM20555      | SWITCH SHEET               | 4   |               |         |            |                         |     |         |
| 39      | VM21194      | SWITCH SHEET               | 1   |               |         |            |                         |     |         |
| 40      | VGU3121      | HEADPHONE VR KNOB          | 1   |               |         |            |                         |     |         |
| 41      | VMP0569      | HEADPHONE MOUNT ANGLE      | 1   |               |         |            |                         |     |         |
| 42      | EWJ5AP15A14  | HEADPHONE VOLUME           | 1   | AU-65-P       |         |            |                         |     |         |
| 42      | EWG00AP15A14 | HEADPHONE VOLUME           | 1   | AU-65-B       |         |            |                         |     |         |
| 43      | VMP0587      | PANEL HOLDER ANGLE         | 1   |               |         |            |                         |     |         |
| 44      | VMP0932      | GND ANGLE                  | 1   |               |         |            |                         |     |         |
| 45      | VYP2978      | CONTROL PANEL (2) UNIT     | 1   | AU-65-P       |         |            |                         |     |         |
| 45      | VYP3531      | CONTROL PANEL (2) UNIT     | 1   | AU-65-E       |         |            |                         |     |         |
| 46      | VM21637      | PC SWITCH BARRIER          | 1   |               |         |            |                         |     |         |

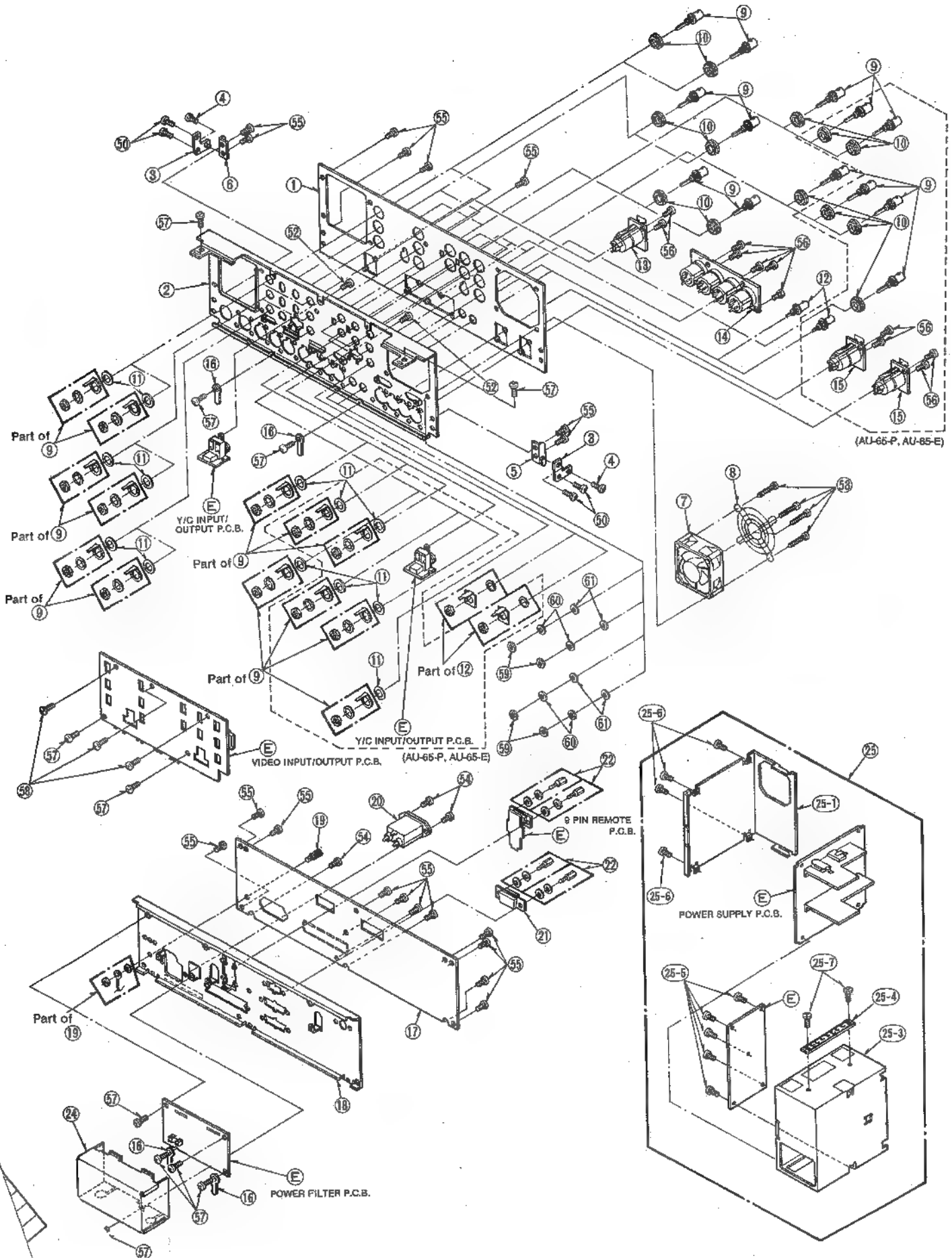
# FRONT PANEL ASSEMBLY (AU-63-P, AU-63-E, AU-62-P, AU-62-E)



## FRONT PANEL ASSEMBLY (AU-63-P, AU-63-E, AU-62-P, AU-62-E)

| Ref.No. | Part No.     | Part Name & Description    | Pcs | Remarks               | Ref.No. | Part No.   | Part Name & Description | Pcs | Remarks |
|---------|--------------|----------------------------|-----|-----------------------|---------|------------|-------------------------|-----|---------|
| 1       | VYP3221      | UPPER FRONT PANEL (1) UNIT | 1   | AU-63-P,AU-63-E       | 79      | XTN4+10G   | SCREW                   | 28  |         |
| 1       | VYP3134      | UPPER FRONT PANEL (1) UNIT | 1   | AU-62-P,AU-62-E       | 80      | XTN4+10J   | SCREW                   | 8   |         |
| 1-1     | VMP1006      | GND ANGLE                  | 1   |                       | 81      | XTS3+8GFC  | SCREW                   | 4   |         |
| 1-2     | VKG1511      | CASSETTE GUIDE             | 2   |                       | 82      | XTV3+8J    | SCREW                   | 11  |         |
| 1-3     | VMP0830      | FRONT (U) PROTECTOR ANGLE  | 1   |                       | 83      | XTV3+10J   | SCREW                   | 2   |         |
| 1       | VXU0768      | VR KNOB (S)                | 3   | 2pcs: AU-63-P,AU-63-E | 85      | XQEV3W6FPS | HEX SCREW               | 2   |         |
| 4       | VGU3394      | EJECT BUTTON               | 1   |                       | 86      | XYN3+P5S   | SCREW                   | 2   |         |
| 5       | VMB1730      | EJECT BUTTON SPRING        | 1   |                       | 87      | XYN3+C18S  | SCREW                   | 2   |         |
| 6       | EST15372T    | POWER SWITCH               | 1   | AU-63-P,AU-62-P       | 88      | XVG3PS     | NUT                     | 4   |         |
| 6       | EST15367S    | POWER SWITCH               | 1   | AU-63-E,AU-62-E       | ■       | XTV4+20G   | SCREW                   | 6   |         |
| 7       | VMP1008      | EJECT SWITCH ANGLE         | 1   |                       |         |            |                         |     |         |
| 8       | VJR3         | CLIMPER                    | 1   |                       |         |            |                         |     |         |
| 9       | VSE0101      | AUDIO METER                | 2   |                       |         |            |                         |     |         |
| 10      | VSE0112      | TRACKING METER             | 1   |                       |         |            |                         |     |         |
| 11      | VQ1051       | METER COVER                | 1   |                       |         |            |                         |     |         |
| 12      | VGU2085      | SWITCH KNOB                | 1   |                       |         |            |                         |     |         |
| 13      | VEE5375      | CONNECTOR CABLE            | 1   |                       |         |            |                         |     |         |
| 14      | VEE5374      | CONNECTOR CABLE            | 1   |                       |         |            |                         |     |         |
| 15      | VEE5373      | CONNECTOR CABLE            | 1   |                       |         |            |                         |     |         |
| 16      | VEE5376      | CONNECTOR CABLE            | 1   |                       |         |            |                         |     |         |
| 17      | VMP1926      | P.C.B. SUPPORT ANGLE (B)   | 3   |                       |         |            |                         |     |         |
| 20      | VM21160      | FRONT BOARD COVER          | 1   |                       |         |            |                         |     |         |
| 21      | VECO682      | 20P FLAT CABLE             | 1   |                       |         |            |                         |     |         |
| 22      | VGU4359      | RESET BUTTON               | 3   |                       |         |            |                         |     |         |
| 24      | VXK1072      | SLIDE SWITCH SPACER        | 3   | 2pcs: AU-63-P,AU-62-E |         |            |                         |     |         |
| 25      | VGH0520      | SWITCH COVER               | 3   | 2pcs: AU-63-P,AU-62-E |         |            |                         |     |         |
| 26      | VGU2089      | SLIDE SWITCH KNOB          | 3   | 2pcs: AU-63-P,AU-62-E |         |            |                         |     |         |
| 27      | VSR0083      | SEARCH DIAL                | 1   |                       |         |            |                         |     |         |
| 28      | VYP2863      | FRONT PANEL (M) 1 UNIT     | 1   | AU-63-P,AU-62-P       |         |            |                         |     |         |
| 28      | VYP3528      | FRONT PANEL (M) 1 UNIT     | 1   | AU-63-E,AU-62-E       |         |            |                         |     |         |
| 28-1    | VMP0562      | PANEL HOLDER ANGLE (L)     | 1   |                       |         |            |                         |     |         |
| 28-2    | VMP0561      | PANEL HOLDER ANGLE (R)     | 1   |                       |         |            |                         |     |         |
| 28-3    | VKG1595      | SWITCH GUARD               | 7   |                       |         |            |                         |     |         |
| 28-4    | VKG1512      | SWITCH GUARD               | 1   |                       |         |            |                         |     |         |
| 29      | VYP2138      | FRONT PANEL (M) 1 UNIT     | 1   |                       |         |            |                         |     |         |
| 30      | VYP2865      | FRONT ALUMINUM PANEL UNIT  | 1   | AU-63-P,AU-62-P       |         |            |                         |     |         |
| 30      | VYP3527      | FRONT ALUMINUM PANEL UNIT  | 1   | AU-63-E,AU-62-E       |         |            |                         |     |         |
| 31      | VYP3145      | CONTROL PANEL (1) UNIT     | 1   | AU-63-P,AU-63-E       |         |            |                         |     |         |
| 31      | VYP3136      | CONTROL PANEL (1) UNIT     | 1   | AU-62-P,AU-62-E       |         |            |                         |     |         |
| 31-1    | VGF0147      | HANDLE COVER               | 2   |                       |         |            |                         |     |         |
| 31-2    | VML1657      | LOCK RELEASE LEAVER (L)    | 1   |                       |         |            |                         |     |         |
| 31-3    | VMB1333      | SPRING                     | 2   |                       |         |            |                         |     |         |
| 31-4    | VGH0111      | HANDLE (L)                 | 1   |                       |         |            |                         |     |         |
| 31-5    | VML1656      | LOCK RELEASE LEVER (R)     | 1   |                       |         |            |                         |     |         |
| 31-6    | VGH0110      | HANDLE (R)                 | 1   |                       |         |            |                         |     |         |
| 32      | VXU0767      | SEARCH DIAL KNOB UNIT      | 1   |                       |         |            |                         |     |         |
| 33      | VMP0861      | PULL GUIDE ANGLE           | 1   |                       |         |            |                         |     |         |
| 34      | VMP1061      | PULL GUIDE HOLDER ANGLE    | 2   |                       |         |            |                         |     |         |
| 35      | VMP1057      | RAIL HOLDER ANGLE (L)      | 1   |                       |         |            |                         |     |         |
| 36      | VMP1056      | RAIL HOLDER ANGLE (R)      | 1   |                       |         |            |                         |     |         |
| 37      | VGU2080      | SWITCH KNOB                | 4   | 3pcs: AU-62-P,AU-62-E |         |            |                         |     |         |
| 38      | VM20655      | SWITCH SHEET               | 3   | 2pcs: AU-62-P,AU-62-E |         |            |                         |     |         |
| 39      | VM21194      | SWITCH SHEET               | 1   |                       |         |            |                         |     |         |
| 40      | VGU3121      | HEADPHONE VR KNOB          | 1   |                       |         |            |                         |     |         |
| 41      | VMP0589      | HEADPHONE MOUNT ANGLE      | 1   |                       |         |            |                         |     |         |
| 42      | EWJDSAP15A14 | HEADPHONE VOLUME           | 1   | AU-63-P,AU-62-P       |         |            |                         |     |         |
| 42      | EWGGAP15A14  | HEADPHONE VOLUME           | 1   | AU-63-E,AU-62-E       |         |            |                         |     |         |
| 43      | VMP0587      | PANEL HOLDER ANGLE         | 1   |                       |         |            |                         |     |         |
| 44      | VMP0932      | GND ANGLE                  | 1   |                       |         |            |                         |     |         |
| 45      | VYP2978      | CONTROL PANEL (2) UNIT     | 1   | AU-63-P,AU-62-P       |         |            |                         |     |         |
| 45      | VYP3531      | CONTROL PANEL (2) UNIT     | 1   | AU-63-E,AU-62-E       |         |            |                         |     |         |
| 46      | VM21637      | AC SWITCH BARRIER          | 1   |                       |         |            |                         |     |         |
| 47      | VMP2910      | VR P.C.B. HOLDER ANGLE     | 1   | AU-63-P,AU-63-E       |         |            |                         |     |         |
|         |              |                            |     |                       |         |            |                         |     |         |
|         |              |                            |     |                       |         |            |                         |     |         |
|         |              |                            |     |                       |         |            |                         |     |         |
|         |              |                            |     |                       |         |            |                         |     |         |
| 70      | XSB3+5S      | SCREW                      | 3   |                       |         |            |                         |     |         |
| 71      | XSB3+6S      | SCREW                      | 4   |                       |         |            |                         |     |         |
| 72      | XSB3+8F2S    | SCREW                      | 4   |                       |         |            |                         |     |         |
| 73      | XSB3+8S      | SCREW                      | 4   |                       |         |            |                         |     |         |
| 74      | XSN3+6S      | SCREW                      | 5   |                       |         |            |                         |     |         |
| 75      | XSN3+8S      | SCREW                      | 4   |                       |         |            |                         |     |         |
| 76      | XSS3+6PCS    | SCREW                      | 7   |                       |         |            |                         |     |         |
| 77      | XSS3+8PCS    | SCREW                      | 4   |                       |         |            |                         |     |         |
| 78      | XSS3+10S     | SCREW                      | 4   |                       |         |            |                         |     |         |

# REAR JACK PANEL ASSEMBLY



## REAR JACK PANEL ASSEMBLY

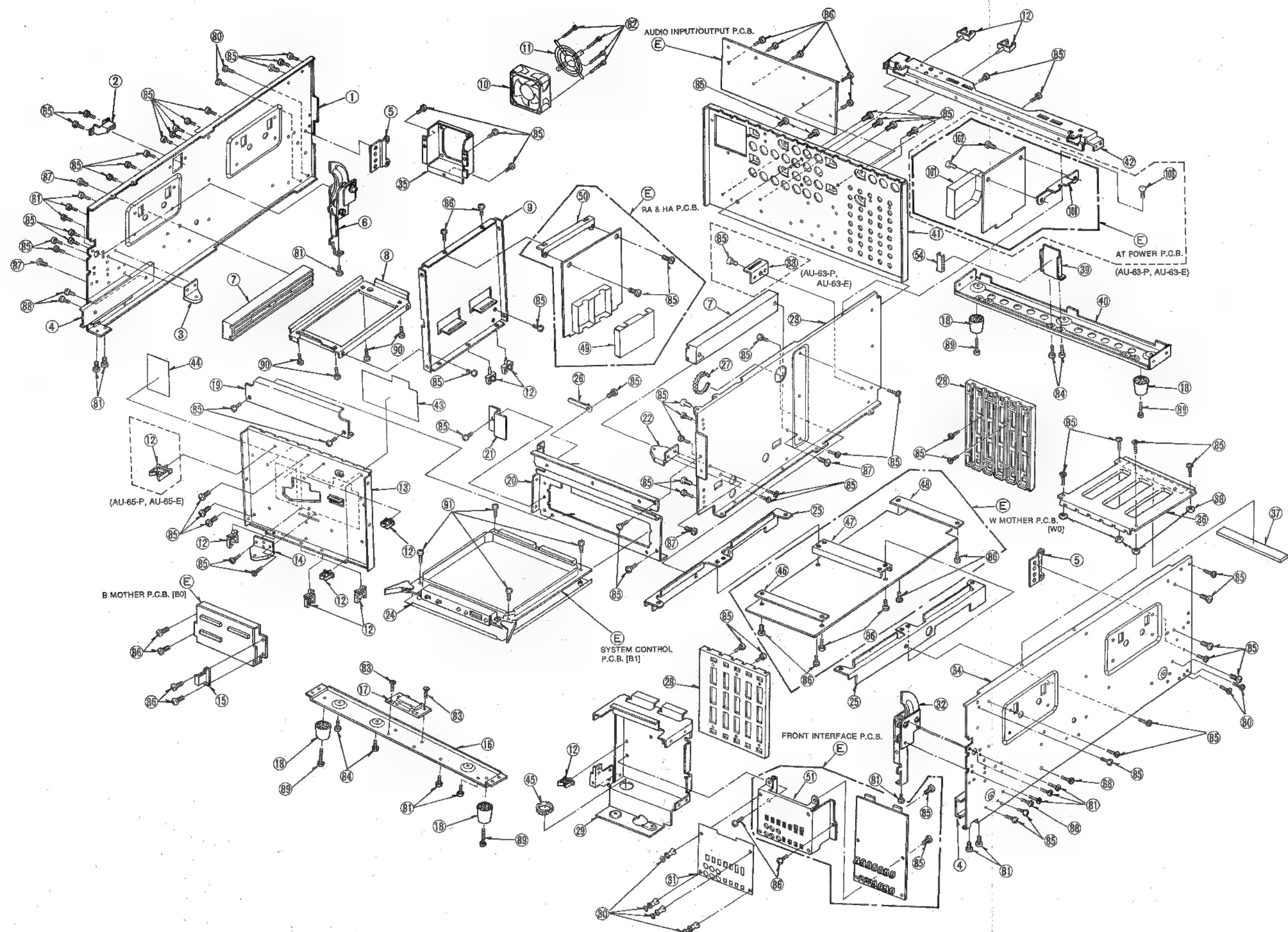
| Ref.No. | Part No.   | Part Name & Description | Pcs | Remarks                                    |
|---------|------------|-------------------------|-----|--|
| 1       | VGH2284    | JACK NAME PLATE (UPPER) | 1   | AU-65-P, AU-65-E                           |
| 1       | VGH2389    | JACK NAME PLATE (UPPER) | 1   | AU-63-P, AU-63-E,<br>AU-62-P, AU-62-E      |
| 2       | VJH0583    | JACK PLATE (UPPER)      | 1   |  |
| 3       | VMP1007    | JACK ROTARY PLATE       | 2   |  |
| 4       | VHD0325    | JACK ANGLE SCREW        | 2   |  |
| 5       | VMP0994    | JACK ROTARY ANGLE (L)   | 1   |  |
| 6       | VMP0960    | JACK ROTARY ANGLE (R)   | 1   |  |
| 7       | VRP0061    | FUN MOTOR               | 1   |  |
| 8       | VGP0335    | FUN MOTOR COVER         | 1   |  |
| 9       | VJS1087    | BNC CONNECTOR           | 13  | Bpcs: AU-63-P, AU-63-E<br>AU-62-P, AU-62-E |
| 10      | VNZ0631    | BNC NUT                 | 13  | Bpcs: AU-63-P, AU-63-E<br>AU-62-P, AU-62-E |
| 11      | VNZ0630    | WASHER                  | 13  | Bpcs: AU-63-P, AU-63-E<br>AU-62-P, AU-62-E |
| 12      | VJJ0091    | BNC CONNECTOR           | 2   | 1pcs: AU-63-P, AU-63-E<br>AU-62-P, AU-62-E |
| 13      | VJP1894    | XLR CONNECTOR           | 1   |  |
| 14      | VJP2524    | XLR (4PC) CONNECTOR     | 1   |  |
| 15      | VJS2614    | XLR CONNECTOR           | 2   | AU-65-P, AU-65-E                           |
| 16      | VJR3       | CLIMPER                 | 4   |  |
| 17      | VGH2285    | JACK NAME PLATE (LOWER) | 1   | AU-65-P, AU-63-P,<br>AU-62-P               |
| 17      | VGH2551    | JACK NAME PLATE (LOWER) | 1   | AU-65-E, AU-63-E,<br>AU-62-E               |
| 18      | VJH0584    | JACK PLATE (LOWER)      | 1   |  |
| 19      | VJH0082    | GND TERMINAL            | 1   |  |
| 20      | VJP0083    | AC INLET                | 1   |  |
| 21      | VVE6377    | 15P REMOTE CONNECTOR    | 1   |  |
| 22      | VXQ0102    | HEX A BASS              | 4   |  |
| 24      | VNZ1597    | POWER FILTER COVER      | 1   |  |
| 25      | VVK3004    | POWER UNIT              | 1   | NTSC                                       |
| 25      | VVK3637    | POWER UNIT              | 1   | PAL  |
| 25-1    | VMP2698    | COVER                   | 1   |  |
| 25-3    | VMP2696    | FRAME                   | 1   |  |
| 25-4    | VKH0230    | HANDLE                  | 1   |  |
| 25-6    | XYNV3+K8S  | SCREW                   | 4   |  |
| 25-6    | XIV3+8P    | SCREW                   | 4   |  |
| 25-7    | XYN4+P8S   | SCREW                   | 11  |  |
| 50      | XYN3+C6S   | SCREW                   | 4   |  |
| 52      | XSN3+6FZS  | SCREW                   | 2   |  |
| 53      | XSN4+35PCS | SCREW                   | 4   |  |
| 54      | XSB3+8FZS  | SCREW                   | 3   |  |
| 55      | XTB3+6FFZ  | SCREW                   | 14  |  |
| 56      | XTN26+6FFY | SCREW                   | 11  |  |
| 57      | XIV3+6P    | SCREW                   | 10  |  |
| 58      | XVE3+EF8   | SCREW                   | 3   |  |
| 59      | XNGAES     | NUT                     | 4   |  |
| 60      | XWA4B      | SPRING WASHER           | 4   |  |
| 61      | XWG4       | WASHER                  | 4   |  |

## CHASSIS FRAME ASSEMBLY

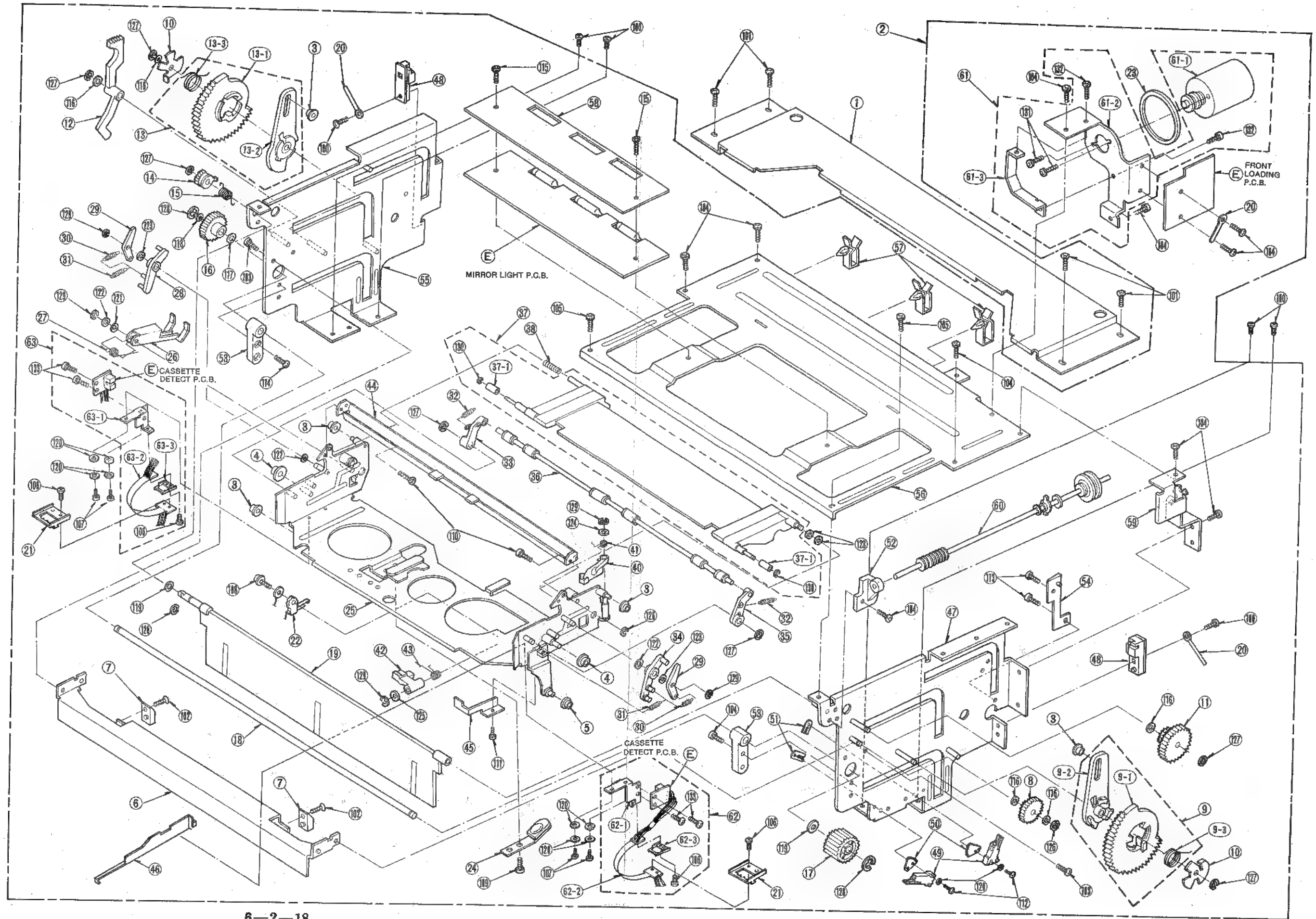
| Ref.No. | Part No.    | Part Name & Description         | Pcs | Remarks         | Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---------|-------------|---------------------------------|-----|-----------------|---------|----------|-------------------------|-----|---------|
| 1       | VMP2607     | SIDE FRAME (L)                  | 1   |                 | 102     | XIV3+6F  | SCREW                   | 2   |         |
| 2       | VMP0842     | TOP MOUNT PLATE (L)             | 1   |                 | 103     | XIV3+6F  | SCREW                   | 1   |         |
| 3       | VMP0616     | CHASSIS FRAME (L)               | 1   |                 |         |          |                         |     |         |
| 4       | VYQ0013     | RAIL UNIT                       | 2   |                 |         |          |                         |     |         |
| 5       | VMP2616     | JACK MOUNT ANGLE (BOTTOM)       | 2   |                 |         |          |                         |     |         |
| 6       | VYQ0252     | ROTARY ANGLE (L) UNIT           | 1   |                 |         |          |                         |     |         |
| 7       | VG02025     | B BOARD GUIDE RAIL              | 2   |                 |         |          |                         |     |         |
| 8       | VMP2596     | POWER MOUNT ANGLE               | 1   |                 |         |          |                         |     |         |
| 9       | VMP2612     | POWER FRAME                     | 1   |                 |         |          |                         |     |         |
| 10      | VRFO061     | FUN MOTOR                       | 1   |                 |         |          |                         |     |         |
| 11      | VGFO335     | FUN MOTOR COVER                 | 1   |                 |         |          |                         |     |         |
| 12      | VJFO022     | M CLUMPER                       | 11  |                 |         |          |                         |     |         |
| 13      | VMP2610     | GUIDE FRAME (M)                 | 1   |                 |         |          |                         |     |         |
| 14      | VMP0618     | CHASSIS FRAME (M)               | 1   |                 |         |          |                         |     |         |
| 15      | VMP2783     | TC BOARD STOPPER ANGLE          | 1   |                 |         |          |                         |     |         |
| 16      | VMP2693     | FOOT MOUNT ANGLE                | 1   |                 |         |          |                         |     |         |
| 17      | VGQ1050     | FULL GUIDE                      | 1   |                 |         |          |                         |     |         |
| 18      | VKA0027     | FOOT                            | 4   |                 |         |          |                         |     |         |
| 19      | VMP2613     | B BOARD COVER                   | 1   |                 |         |          |                         |     |         |
| 20      | VMP2614     | FRONT FRAME                     | 1   |                 |         |          |                         |     |         |
| 21      | VMP2596     | P.C.B. MOUNT ANGLE (B)          | 1   |                 |         |          |                         |     |         |
| 22      | VMP0617     | CHASSIS FRAME (R)               | 1   |                 |         |          |                         |     |         |
| 23      | VMP2608     | CENTER FRAME                    | 1   |                 |         |          |                         |     |         |
| 24      | VKA3967     | B.P.C.B. SHIELD PLATE           | 1   |                 |         |          |                         |     |         |
| 25      | VMP2620     | W MOTHER P.C.B. ANGLE           | 2   |                 |         |          |                         |     |         |
| 26      | UJR3        | CLUMPER                         | 1   |                 |         |          |                         |     |         |
| 27      | VWX1314W075 | FREE BUSHING                    | 1   |                 |         |          |                         |     |         |
| 28      | VGQ2024     | W BOARD GUIDE RAIL              | 2   |                 |         |          |                         |     |         |
| 29      | VMP2611     | GUIDE FRAME (S)                 | 1   |                 |         |          |                         |     |         |
| 30      | VRN0011     | LATCH                           | 4   |                 |         |          |                         |     |         |
| 31      | VGH2286     | SUB FRONT PANEL                 | 1   | AU-65-P         |         |          |                         |     |         |
| 31      | VGH2549     | SUB FRONT PANEL                 | 1   | AU-65-E         |         |          |                         |     |         |
| 31      | VGH2401     | SUB FRONT PANEL                 | 1   | AU-63-P,AU-62-P |         |          |                         |     |         |
| 31      | VGH2550     | SUB FRONT PANEL                 | 1   | AU-63-E,AU-62-E |         |          |                         |     |         |
| 32      | VYQ0251     | ROTARY ANGLE (R) UNIT           | 1   |                 |         |          |                         |     |         |
| 33      | VMP2739     | AT BOARD MOUNT ANGLE (BOTTOM)   | 1   | AU-63-P,AU-63-E |         |          |                         |     |         |
| 34      | VMP0610     | SIDE FRAME (R)                  | 1   |                 |         |          |                         |     |         |
| 35      | VMP2615     | FUN MOTOR MOUNT ANGLE           | 1   |                 |         |          |                         |     |         |
| 36      | VMP2594     | TOP MOUNT PLATE (R)             | 1   |                 |         |          |                         |     |         |
| 37      | VWX1841     | P.C.B. CUSHION (W)              | 1   |                 |         |          |                         |     |         |
| 38      | VWX1558     | WASHER                          | 4   |                 |         |          |                         |     |         |
| 39      | VMP0692     | GUIDE FRAME MOUNT ANGLE         | 1   |                 |         |          |                         |     |         |
| 40      | VMP0683     | GUIDE FRAME (L2)                | 1   |                 |         |          |                         |     |         |
| 41      | VMP2609     | GUIDE FRAME (L)                 | 1   |                 |         |          |                         |     |         |
| 42      | VMP1525     | GUIDE FRAME (L) PROTECTOR ANGLE | 1   |                 |         |          |                         |     |         |
| 43      | VM21590     | CUT SHEET (BIG)                 | 1   |                 |         |          |                         |     |         |
| 44      | VM21591     | CUT SHEET (SMALL)               | 1   |                 |         |          |                         |     |         |
| 45      | VWX1314W146 | FREE BUSHING                    | 1   |                 |         |          |                         |     |         |
| 46      | VMP2617     | W MOTHER P.C.B. ANGLE (F)       | 1   |                 |         |          |                         |     |         |
| 47      | VMP2618     | W MOTHER P.C.B. ANGLE (C)       | 1   |                 |         |          |                         |     |         |
| 48      | VMP2619     | W MOTHER P.C.B. ANGLE (B)       | 1   |                 |         |          |                         |     |         |
| 49      | VSC2341     | SHIELD CASE LID                 | 1   |                 |         |          |                         |     |         |
| 50      | VMP0972     | P.C.B. MOUNT ANGLE              | 1   |                 |         |          |                         |     |         |
| 51      | VMP2600     | SWITCH ANGLE                    | 1   |                 |         |          |                         |     |         |
| 54      | VWX1104     | FREE BUSHING                    | 1   |                 |         |          |                         |     |         |
|         |             |                                 |     |                 |         |          |                         |     |         |
|         |             |                                 |     |                 |         |          |                         |     |         |
| 80      | XSB3+5S     | SCREW                           | 4   |                 |         |          |                         |     |         |
| 81      | XSB3+6S     | SCREW                           | 12  |                 |         |          |                         |     |         |
| 82      | XSN4+35ECS  | SCREW                           | 4   |                 |         |          |                         |     |         |
| 83      | XSS3+5S     | SCREW                           | 2   |                 |         |          |                         |     |         |
| 84      | XTB3+6F     | SCREW                           | 4   |                 |         |          |                         |     |         |
| 85      | XIV3+6F     | SCREW                           | 72  |                 |         |          |                         |     |         |
| 86      | XIV3+6FR    | SCREW                           | 19  |                 |         |          |                         |     |         |
| 87      | XIV3+8J     | SCREW                           | 4   |                 |         |          |                         |     |         |
| 88      | XYN3+C6S    | SCREW                           | 4   |                 |         |          |                         |     |         |
| 89      | XYN4+C14S   | SCREW                           | 4   |                 |         |          |                         |     |         |
| 90      | XYN4+P6S    | SCREW                           | 4   |                 |         |          |                         |     |         |
| 91      | XYNV3+K6FR  | SCREW                           | 4   |                 |         |          |                         |     |         |
|         |             |                                 |     |                 |         |          |                         |     |         |
| 100     | VMP2738     | HOLDER ANGLE                    | 1   |                 |         |          |                         |     |         |
| 101     | VSC2299     | SHIELD COVER                    | 1   |                 |         |          |                         |     |         |
|         |             |                                 |     |                 |         |          |                         |     |         |
|         |             |                                 |     |                 |         |          |                         |     |         |



# CHASSIS FRAME ASSEMBLY



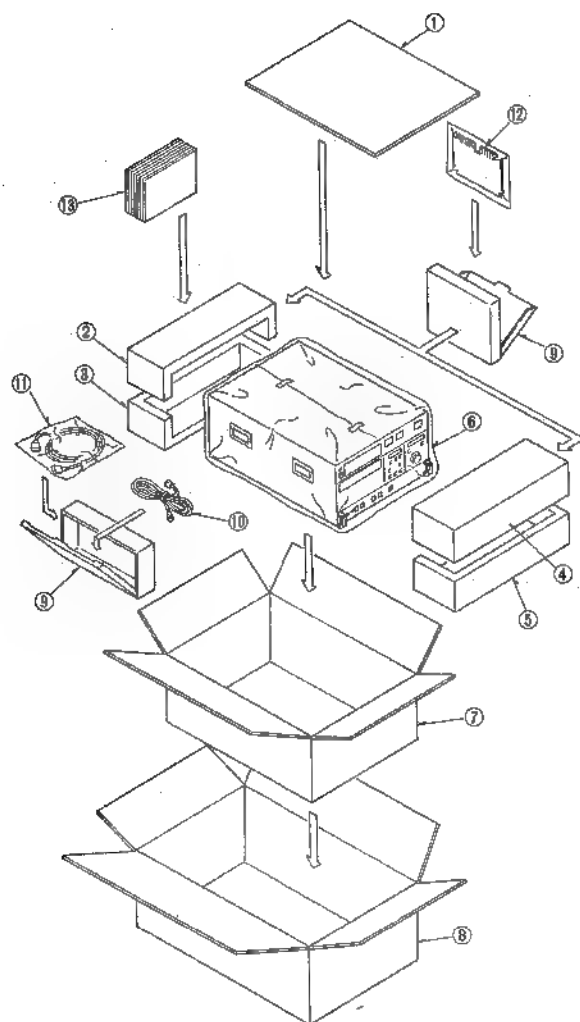
# CASSETTE COMPARTMENT ASSEMBLY



# CASSETTE COMPARTMENT ASSEMBLY

| Ref.No. | Part No. | Part Name & Description    | Pcs | Remarks | Ref.No. | Part No.   | Part Name & Description   | Pcs | Remarks |
|---------|----------|----------------------------|-----|---------|---------|------------|---------------------------|-----|---------|
| 1       | VMP6661  | CARRIAGE MOUNT PLATE       | 1   |         | 63-1    | VMP6880    | SENSOR DETECT (L)         | 1   |         |
| 2       | VXA3756  | FRONT LOADING UNIT         | 1   |         | 63-2    | VJB80099   | FLAT CABLE (L)            | 1   |         |
| 3       | VDP1020  | GUIDE ROLLER (A)           | 5   |         | 63-3    | VMD1382    | FLAT CABLE HOLDER (UPPER) | 1   |         |
| 4       | VDP1021  | GUIDE ROLLER (B)           | 2   |         |         |            |                           |     |         |
| 5       | VDP1022  | GUIDE ROLLER (C)           | 1   |         |         |            |                           |     |         |
| 6       | VMA6639  | FRONT GUIDE ANGLE          | 1   |         |         |            |                           |     |         |
| 7       | VMD1048  | CASSETTE GUIDE             | 1   |         | 100     | XTV3+8F    | SCREW                     | 6   |         |
| 8       | VDO0226  | RELAY GEAR                 | 2   |         | 101     | XYN3+P6S   | SCREW                     | 4   |         |
| 9       | VXL1315  | WIPER (R) UNIT             | 1   |         | 102     | XTS3+6FFZ  | SCREW                     | 2   |         |
| 9-1     | VDO0229  | WIPER GEAR (R)             | 1   |         | 103     | XYN3+C4S   | SCREW                     | 2   |         |
| 9-2     | VWL1683  | WIPER ARM (R)              | 1   |         | 104     | XTV3+6F    | SCREW                     | 12  |         |
| 9-3     | VMB1384  | WIPER SPRING (R)           | 1   |         | 105     | XTN3+4F    | SCREW                     | 1   |         |
| 10      | VMD0748  | WIPER SPRING HOLDER        | 2   |         | 106     | XYN2+P5    | SCREW                     | 4   |         |
| 11      | VDO0500  | WORM GEAR                  | 1   |         | 107     | XYN2+C4    | SCREW                     | 3   |         |
| 12      | VWL1685  | PANEL OPENER               | 1   |         | 108     | XYN2+C6    | SCREW                     | 1   |         |
| 13      | VXL1922  | WIPER (L) UNIT             | 1   |         | 109     | XYN26+P4FZ | SCREW                     | 1   |         |
| 13-1    | VDO0605  | WIPER GEAR (L)             | 1   |         | 110     | XYN26+C4   | SCREW                     | 2   |         |
| 13-2    | VWL2316  | WIPER ARM (L)              | 1   |         | 111     | XYN2+C3    | SCREW                     | 1   |         |
| 13-3    | VMB1385  | WIPER SPRING (L)           | 1   |         | 112     | XSN2+10    | SCREW                     | 2   |         |
| 14      | VDO0231  | PANEL GEAR                 | 1   |         | 113     | XSN2+3     | SCREW                     | 2   |         |
| 15      | VMB1386  | BLINDER PANEL GEAR         | 1   |         | 115     | XST3+4RS   | SCREW                     | 2   |         |
| 16      | VDO0603  | MAIN SHAFT GEAR (L)        | 1   |         | 116     | XMGV4D7G   | WASHER                    | 1   |         |
| 17      | VDO0502  | MAIN SHAFT GEAR (R)        | 1   |         | 117     | XMGV5Y9G   | WASHER                    | 1   |         |
| 18      | VMS3845  | MAIN SHAFT A               | 1   |         | 118     | XMGV5F6G   | WASHER                    | 1   |         |
| 19      | VYF0589  | BLINDER PANEL              | 1   |         | 119     | XMGVSD9G   | WASHER                    | 2   |         |
| 20      | VJR3     | CLAMPER                    | 3   |         | 120     | XMG2       | WASHER                    | 10  |         |
| 21      | VMD1383  | FLAT CABLE HOLDER (LOWER)  | 2   |         | 121     | XMGV326G   | WASHER                    | 1   |         |
| 22      | VSH0034  | LEAF SWITCH                | 1   |         | 122     | XMGV3Y6G   | WASHER                    | 3   |         |
| 23      | VWV0157  | LOADING BELT               | 1   |         | 123     | XMGV3D6G   | WASHER                    | 4   |         |
| 24      | VXL1626  | CASSETTE KEEPER UNIT       | 1   |         | 124     | XWE26      | WASHER                    | 1   |         |
| 25      | VXA2993  | CASSETTE HOLDER            | 1   |         | 125     | XMGV3D5G   | WASHER                    | 1   |         |
| 26      | VXL2065  | CASSETTE OPENER UNIT       | 1   |         | 126     | XUC25FP    | E-RING                    | 2   |         |
| 27      | VMB1547  | CASSETTE SPRING            | 1   |         | 127     | XUC3FP     | E-RING                    | 8   |         |
| 28      | VWL2151  | KICK LEVER (L) UNIT        | 1   |         | 128     | XUC4FP     | E-RING                    | 3   |         |
| 29      | VWL1581  | KICK DRIVE LEVER           | 2   |         | 129     | XUC2FP     | E-RING                    | 1   |         |
| 30      | VMB1380  | KICK DRIVE LEVER SPRING    | 2   |         | 130     | XUC15FP    | E-RING                    | 2   |         |
| 31      | VMB1381  | KICK LEVER SPRING          | 2   |         | 131     | XYN3+C4    | SCREW                     | 2   |         |
| 32      | VMB1382  | PRESS LEVER SPRING         | 2   |         | 132     | XTV26+5F   | SCREW                     | 2   |         |
| 33      | VWL2149  | PRESS LEVER (L)            | 1   |         | 133     | XTV26+4F   | SCREW                     | 4   |         |
| 34      | VWL2150  | KICK LEVER (R) UNIT        | 1   |         |         |            |                           |     |         |
| 35      | VWL2148  | PRESS LEVER (R)            | 1   |         |         |            |                           |     |         |
| 36      | VXJ0038  | PRESS ROLLER SHAFT UNIT    | 1   |         |         |            |                           |     |         |
| 37      | VXA2322  | MIRROR UNIT                | 1   |         |         |            |                           |     |         |
| 37-1    | VDP1023  | MIRROR ROLLER              | 2   |         |         |            |                           |     |         |
| 38      | VMB1399  | MIRROR SPRING              | 1   |         |         |            |                           |     |         |
| 40      | VXL1278  | RELEASE LEVER UNIT         | 1   |         |         |            |                           |     |         |
| 41      | VMB1383  | RELEASE LEVER SPRING       | 1   |         |         |            |                           |     |         |
| 42      | VWL1845  | CASSETTE DETECT LEVER      | 1   |         |         |            |                           |     |         |
| 43      | VMB1548  | CASSETTE DETECT SPRING     | 1   |         |         |            |                           |     |         |
| 44      | VMA7000  | PRESS ROLLER SHAFT STOPPER | 1   |         |         |            |                           |     |         |
| 45      | VMA7172  | FIXING ANGLE               | 1   |         |         |            |                           |     |         |
| 46      | VMD1109  | CASSETTE GUIDE (R)         | 1   |         |         |            |                           |     |         |
| 47      | VXA2317  | RIGHT SIDE PLATE (L) UNIT  | 1   |         |         |            |                           |     |         |
| 48      | VEX2414  | PHOTO TR UNIT              | 2   |         |         |            |                           |     |         |
| 49      | VSM0048  | SWITCH                     | 2   |         |         |            |                           |     |         |
| 50      | VMA6663  | SWITCH ADJUSTMENT PLATE    | 2   |         |         |            |                           |     |         |
| 51      | VMA6664  | SWITCH MOUNT PLATE         | 2   |         |         |            |                           |     |         |
| 52      | VMD0747  | SHAFT BEARING              | 1   |         |         |            |                           |     |         |
| 53      | VMD0746  | MAIN SHAFT BEARING         | 1   |         |         |            |                           |     |         |
| 54      | VMA6637  | RELEASE LEVER HOLDER       | 1   |         |         |            |                           |     |         |
| 55      | VXA2319  | LEFT SIDE PLATE            | 1   |         |         |            |                           |     |         |
| 56      | VMA6643  | TOP PLATE                  | 1   |         |         |            |                           |     |         |
| 57      | VGO0107  | MINI-CLAMPER               | 3   |         |         |            |                           |     |         |
| 58      | VME0729  | MIRROR LIGHT P.C.B. COVER  | 1   |         |         |            |                           |     |         |
| 59      | VMA6662  | WORM SHAFT MOUNT PLATE     | 1   |         |         |            |                           |     |         |
| 60      | VXJ0073  | WORM SHAFT (L) UNIT        | 1   |         |         |            |                           |     |         |
| 61      | VEM0265  | FRONT LOADING MOTOR UNIT   | 1   |         |         |            |                           |     |         |
| 61-1    | VEM0228  | MOTOR UNIT                 | 1   |         |         |            |                           |     |         |
| 61-2    | VMA6649  | LOADING MOTOR MOUNT ANGLE  | 1   |         |         |            |                           |     |         |
| 61-3    | VMA6794  | BELT COVER                 | 1   |         |         |            |                           |     |         |
| 62      | VES0351  | CASSETTE DETECT (R) UNIT   | 1   |         |         |            |                           |     |         |
| 62-1    | VMA6879  | SENSOR ANGLE (R)           | 1   |         |         |            |                           |     |         |
| 62-2    | VJB80098 | FLAT CABLE (R)             | 1   |         |         |            |                           |     |         |
| 62-3    | VMD1382  | FLAT CABLE HOLDER (UPPER)  | 1   |         |         |            |                           |     |         |
| 63      | VES0352  | CASSETTE DETECT (L) UNIT   | 1   |         |         |            |                           |     |         |

## PACKING

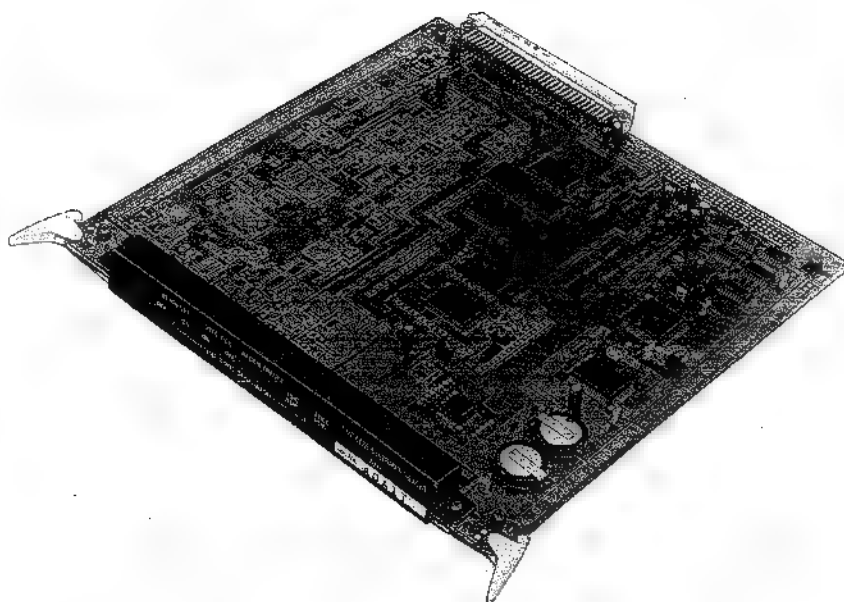


## PACKING

| Ref.No. | Part No. | Part Name & Description             | Pcs | Remarks                      |
|---------|----------|-------------------------------------|-----|------------------------------|
| 1       | VPN2698  | TOP PAD                             | 1   |                              |
| 2       | VPN2665  | UPPER REAR CUSHION                  | 1   |                              |
| 3       | VPN2697  | LOWER REAR CUSHION                  | 1   |                              |
| 4       | VPN2664  | UPPER FRONT CUSHION                 | 1   |                              |
| 5       | VPN2696  | LOWER FRONT CUSHION                 | 1   |                              |
| 6       | VPF0296  | COVER                               | 1   |                              |
| 7       | VP65146  | PACKING CASE (IN)                   | 1   |                              |
| 8       | VP65417  | PACKING CASE (OUT)                  | 1   |                              |
| 9       | VPK1243  | ACCESSORIES BOX                     | 1   |                              |
| 10      | WJA0472  | POWER CODE                          | 1   | AU-65-P, AU-63-P,<br>AU-62-P |
| 10      | WJA0173  | POWER CODE (E)                      | 1   | AU-65-E, AU-63-E,<br>AU-62-E |
| 10      | WJA0172  | POWER CODE (B)                      | 1   | AU-65-E, AU-63-E,<br>AU-62-E |
| 10      | WJA0258  | POWER CODE (A)                      | 1   | AU-65-E, AU-63-E,<br>AU-62-E |
| 11      | WJA0561  | 9P CABLE                            | 1   |                              |
| 12      | VEK0600  | EXTENSION BOARD (W)                 | 1   |                              |
| 13      | VQT4134  | OPERATING INSTRUCTIONS<br>(GERMAN)  | 2   | AU-63-E, AU-62-E             |
| 13      | VQT4135  | OPERATING INSTRUCTIONS<br>(FRENCH)  | 1   | AU-63-E, AU-62-E             |
| 13      | VQT4136  | OPERATING INSTRUCTIONS<br>(SPANISH) | 1   | AU-63-E, AU-62-E             |
| 13      | VQT4137  | OPERATING INSTRUCTIONS<br>(GERMAN)  | 1   | AU-65-E                      |
| 13      | VQT4138  | OPERATING INSTRUCTIONS<br>(FRENCH)  | 1   | AU-65-E                      |
| 13      | VQT4139  | OPERATING INSTRUCTIONS<br>(SPANISH) | 1   | AU-65-E                      |

Time Code Generator/Reader

**AU-F65**



## INTRODUCTION

The AU-F65 is a Plug-in Time Code Generator and Reader for use with the AU-65, AU-63 or the AU-62. The AU-F65 provides a precise timing signal, enabling the AU-65, AU-63 and AU-62 to perform highly accurate editing. This section contains technical information covering the following points, adjustment procedures, block diagrams, schematic diagrams, P.C.Board diagrams, and parts list of the AU-F65.

## 1.TEST & SERVICE EQUIPMENT

To perform the electrical adjustment completely the following is required.

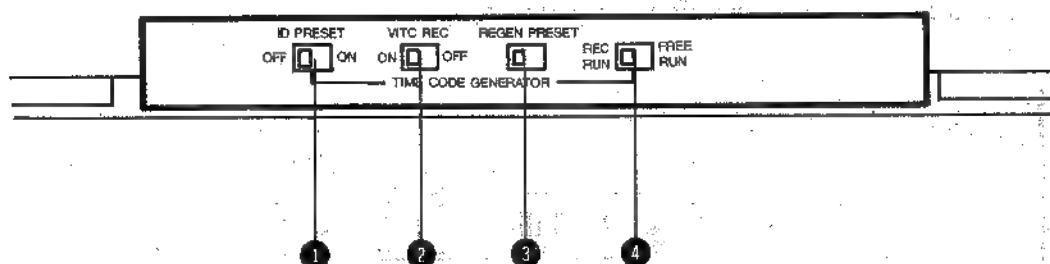
1. Frequency counter
2. Extension Board.( VFK0601 )
3. AU-65, AU-63 or AU-62

## 2.ADJUSTMENT

### 2-1. TRIMMER ADJUSTMENT

| TEST POINT   | MODE  | TAPE USED | M.EQ.                              | INPUT SIGNAL | ADJUSTMENT |
|--|-------|-----------|------------------------------------|--------------|------------|
| TP 6   | EJECT | -----     | FREQUENCY<br>COUNTER               | -----        | C19        |
| <ol style="list-style-type: none"><li>1. Confirm that the frequency at TP6 is <math>512.000 \pm 0.002\text{Hz}</math>.</li><li>2. If it is not specification, adjust C19 as mentioned above.</li></ol> |       |           | TP6 : $512.000 \pm 0.002\text{Hz}$ |              |            |

### 3.CONTROLS AND THEIR FUNCTIONS



#### B2 TCG/TCR board

##### ① ID PRESET ON/OFF Switch (Shipment mode: OFF)

This switch is used to switch the ID code.

Any frequently-set user bit such as VTR number for example can be set as an original VTR ID code in advance. This ID code can be called upon request.

The following can be switched when the "UB REAL TIME" set-up menu No. 6008 is OFF.

**ON:** When the VTR is in the STOP mode, the ID code can be set.

When the VTR is in the recording mode, the ID code can be recorded.

**OFF:** The ID code is not set, and the normal user bits value is set/recorded/displayed.

##### ② VITC REC ON/OFF Switch (Shipment mode: ON)

This switch is used to switch the VITC recording mode.

VITC is ■ time code which can be recorded in the video signal vertical blanking. By recording VITC the time code value can be read at ■ tape speed lower than  $\pm 1/8$ .

**ON:** The VITC generated by the internal time code generator is recorded.  
The VITC is recorded together with the video signal.

**OFF:** When VITC is transmitted together with the video input signals, this VITC is recorded. Otherwise, the VITC is not recorded on tape.

##### ③ REGEN/PRESET Selector Switch (Shipment mode: REGEN)

**REGEN:** A time code synchronized with an external time code or the time code on the playback tape is generated.

**PRESET:** Set the switch to this position to directly record a time code generated by the internal generator or an external time code.

For details, refer to page 7 "5-4-3. Setting of the REGEN/PRESET and INT/EXT Switches".

##### ④ REC RUN/FREE RUN Selector Switch (Shipment mode: REC RUN)

**REC RUN:** The generator counts ■ time code value only when the VTR is recording.

**FREE RUN:** The generator counts a time code value in the same way as a clock, regardless of the operating mode of the VTR.

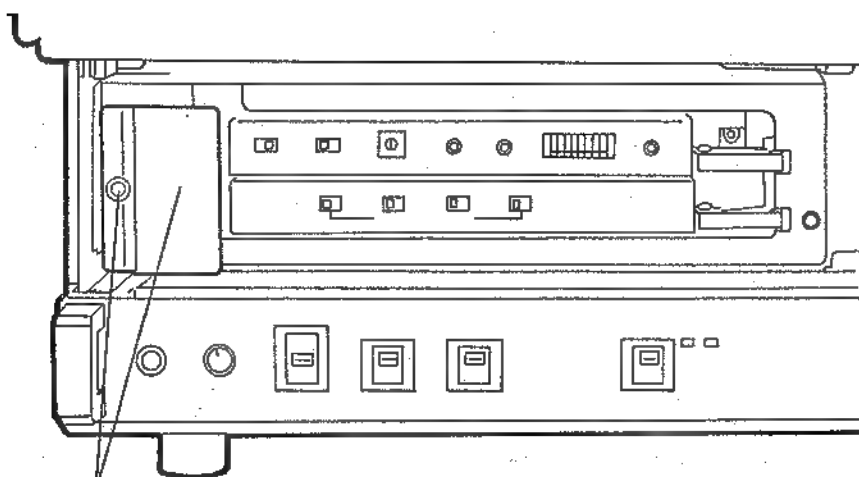
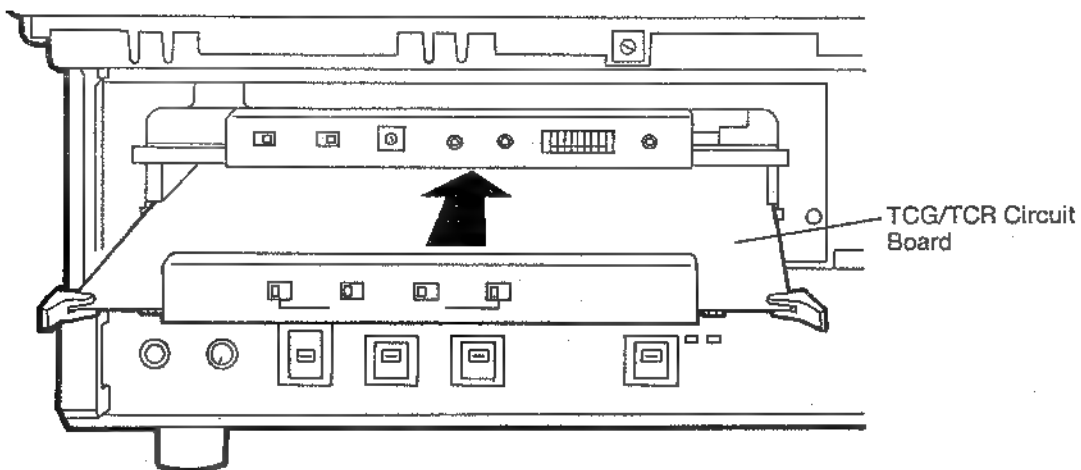
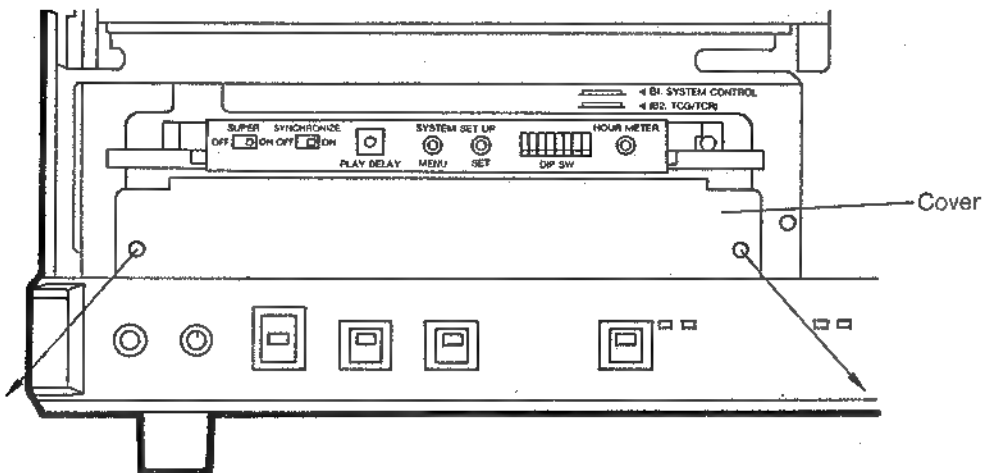
#### Cautions for use with Player VTR AU-62/63

- AU-62/63 are designed exclusively for use as a playback VTR, therefore setting/recording of the time code/user bits cannot be performed.
- The AU-62/63 have not the external time code reader, therefore external time code cannot be monitored on the TV monitor.
- The time code regenerated to the tape time code can be output from the Time Code Output Connector, using the following switches.
  1. Set the Regen/Preset Switch to "REGEN".
  2. Set the ID Preset Switch to "OFF".

Be sure that the user bits value is output as "0" if the switch is set to ON.

## 4.INSTALLATION

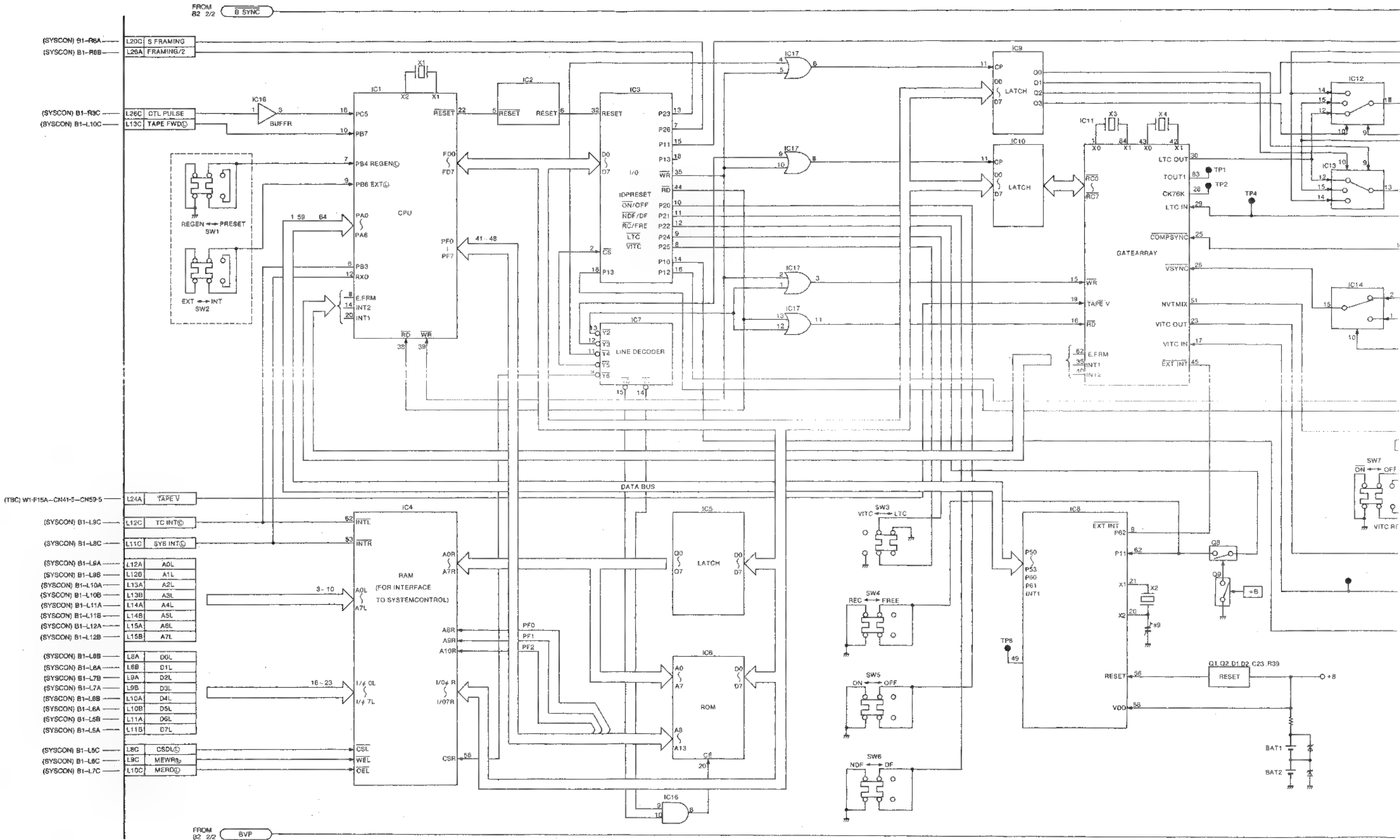
1. Remove the TCG/TCR Circuit-Board Cover on the sub control panel.
2. Install the TCG/TCR Circuit-Board (AU-F65) in the VTR.

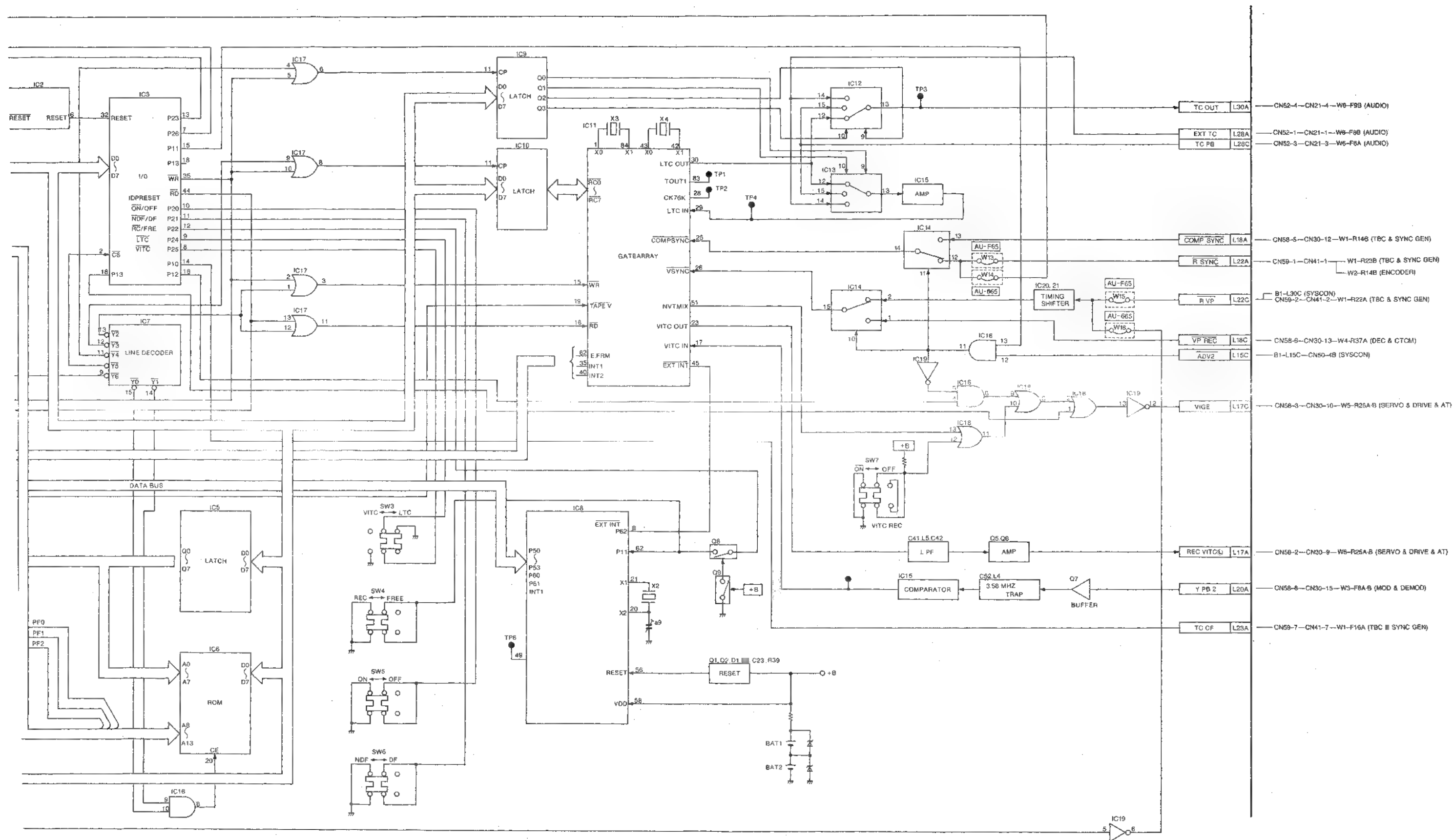


Secure the Board  
with the supplied  
fixture.

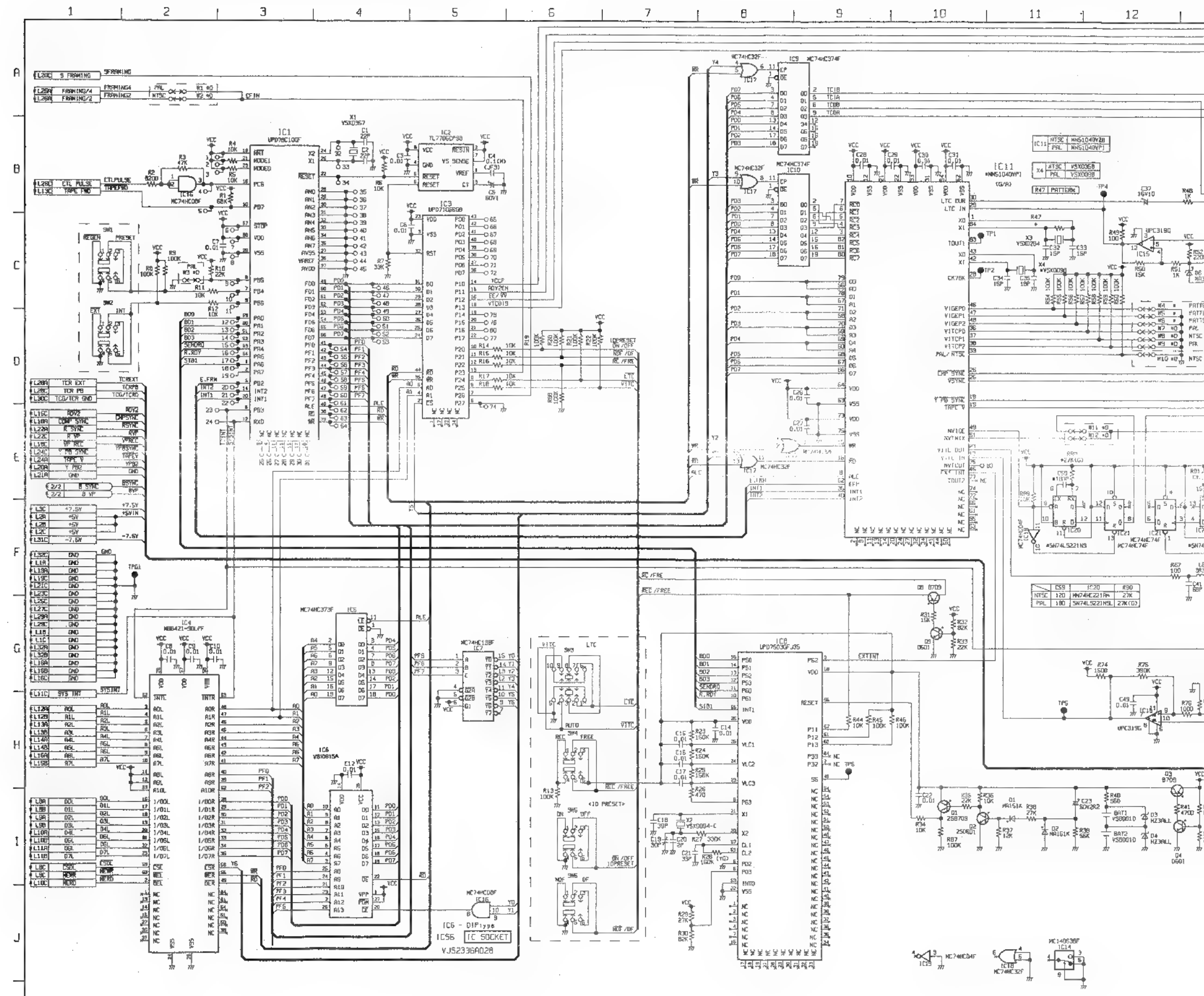


## AU-F65 BLOCK DIAGRAM

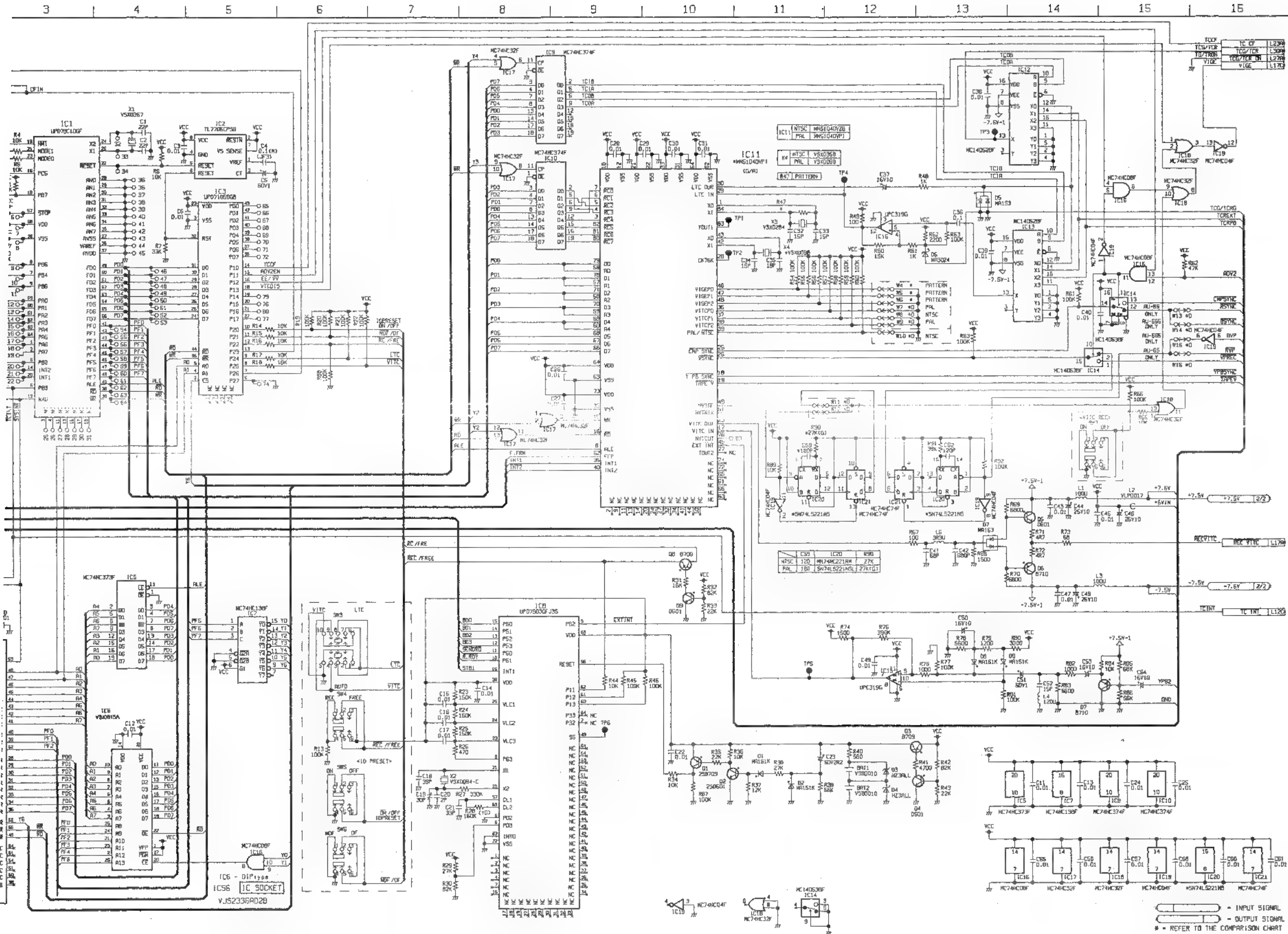




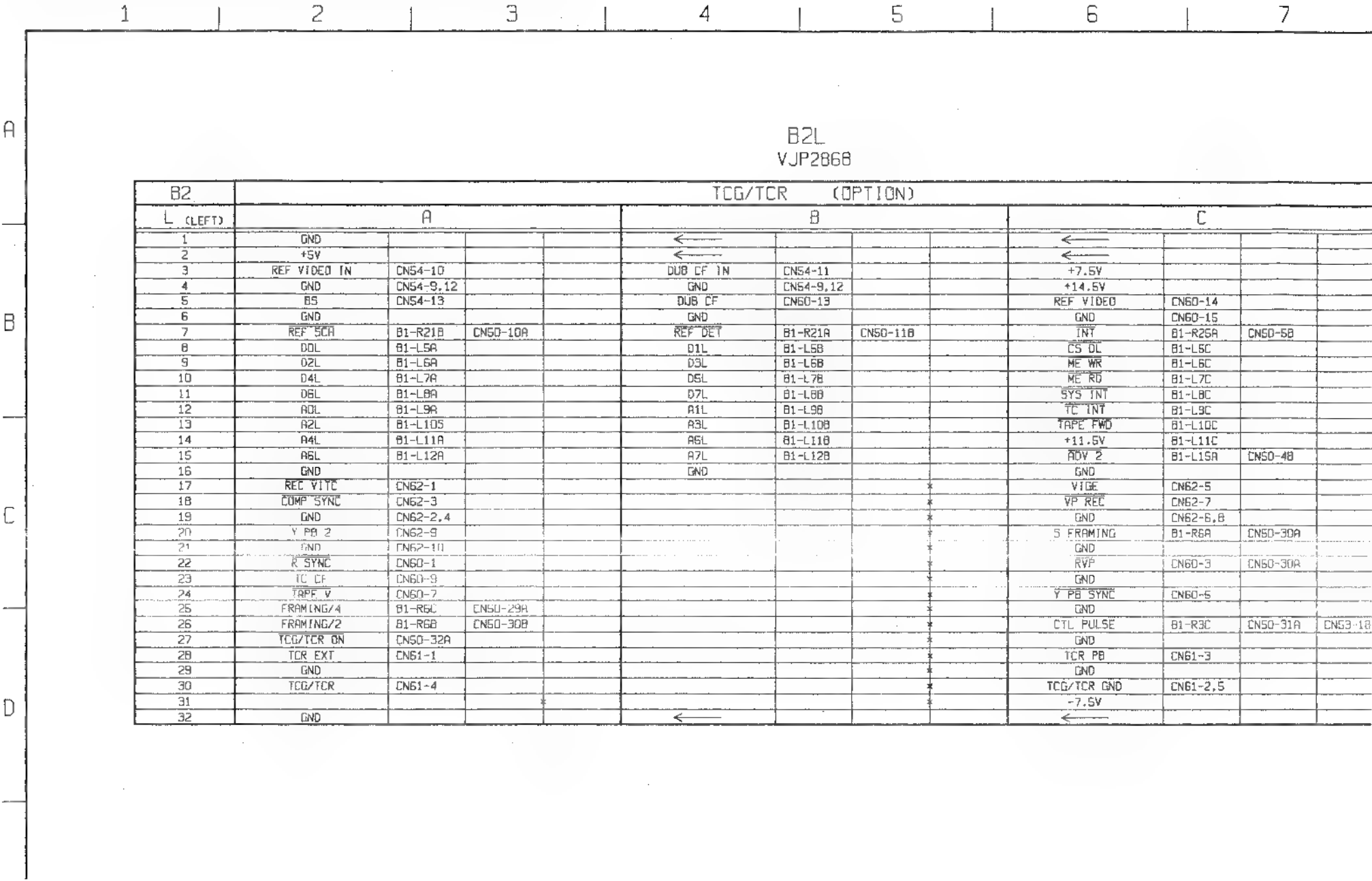
# AU-F65 SCHEMATIC DIAGRAM 1/2



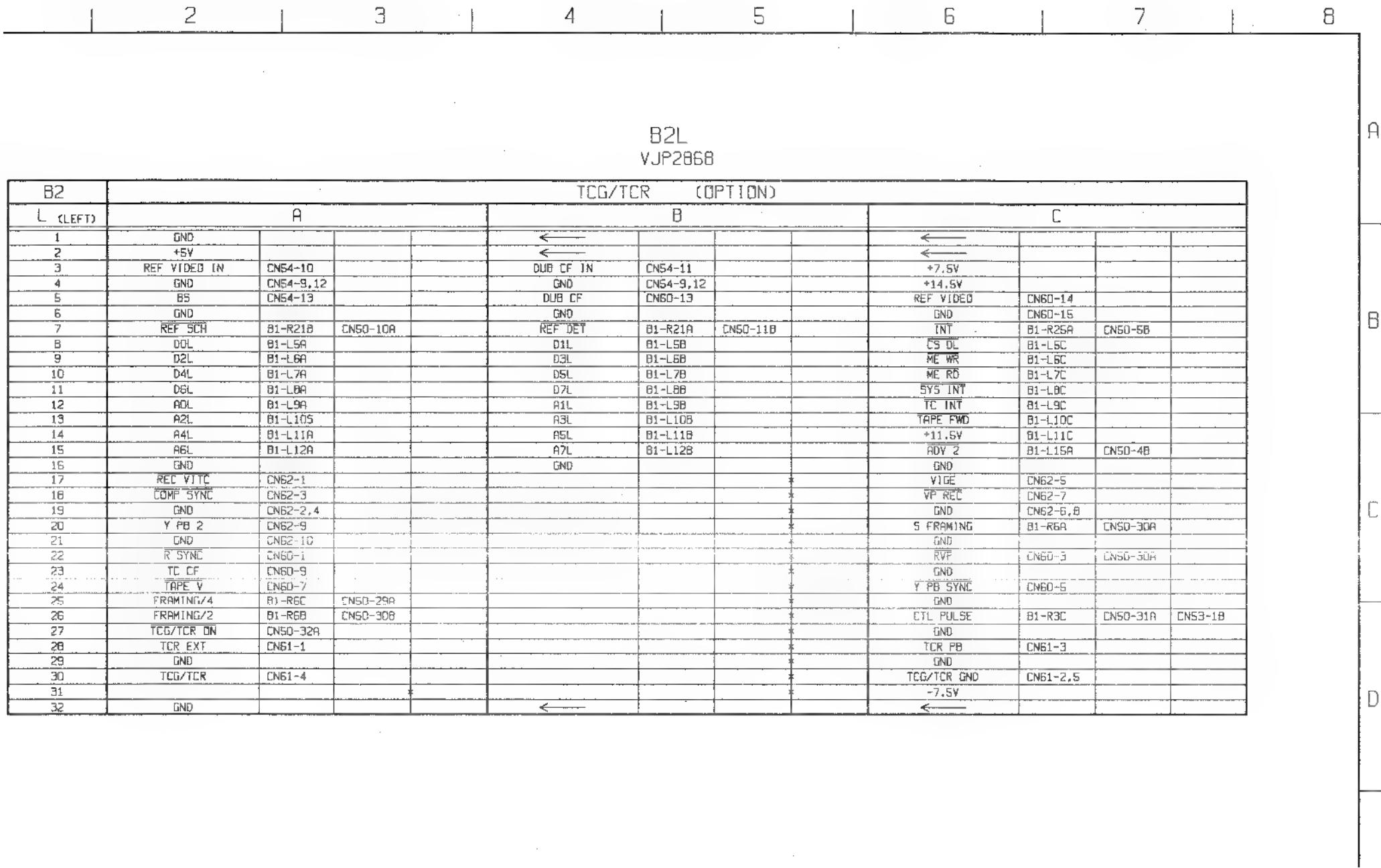
# ATIC DIAGRAM 1/2



AU-F65 SCHEMATIC DIAGRAM 2/2

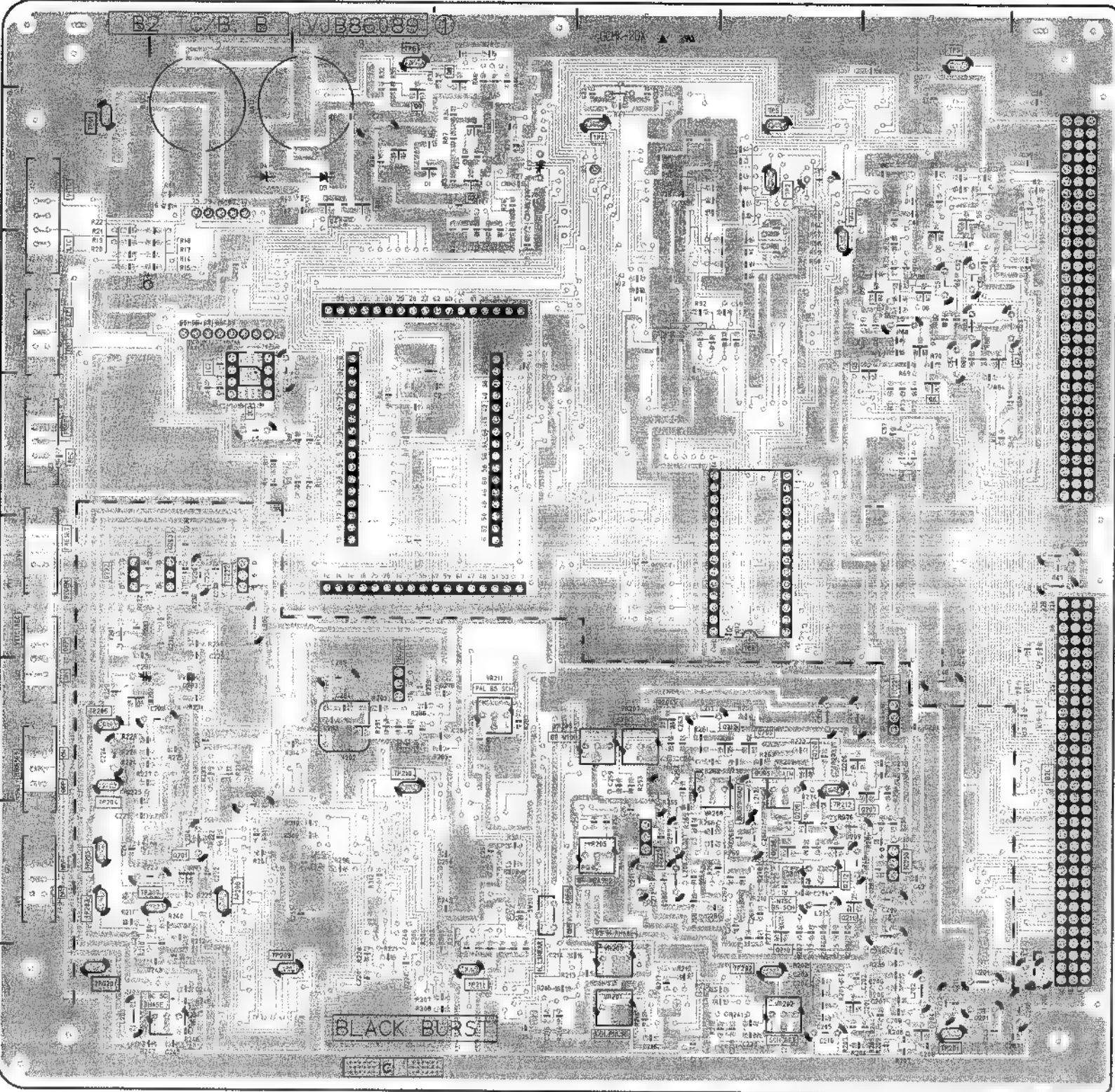


5 SCHEMATIC DIAGRAM 2/2

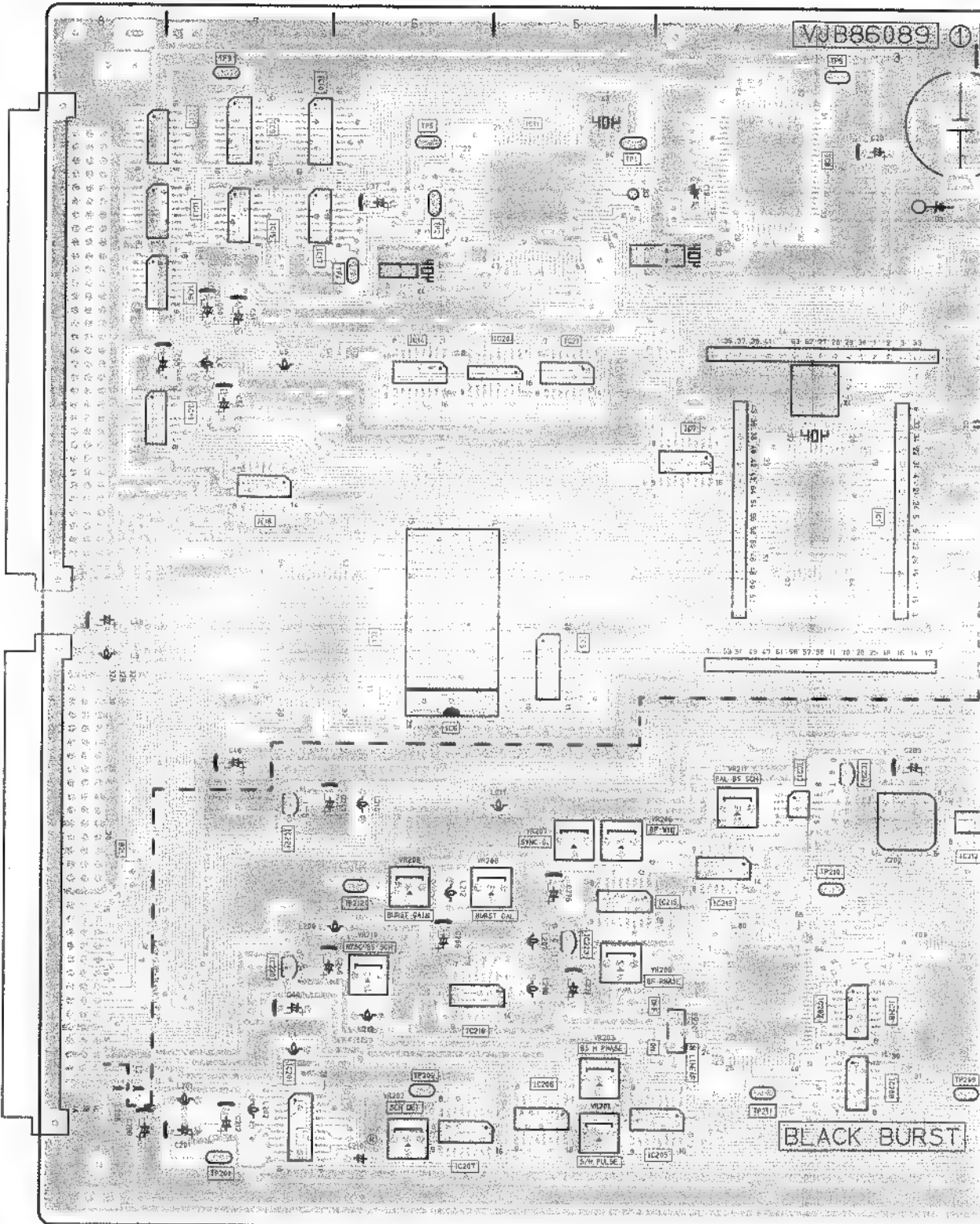




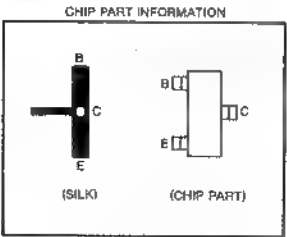
AU-F65 P.C.BOARD (VEP86089A)



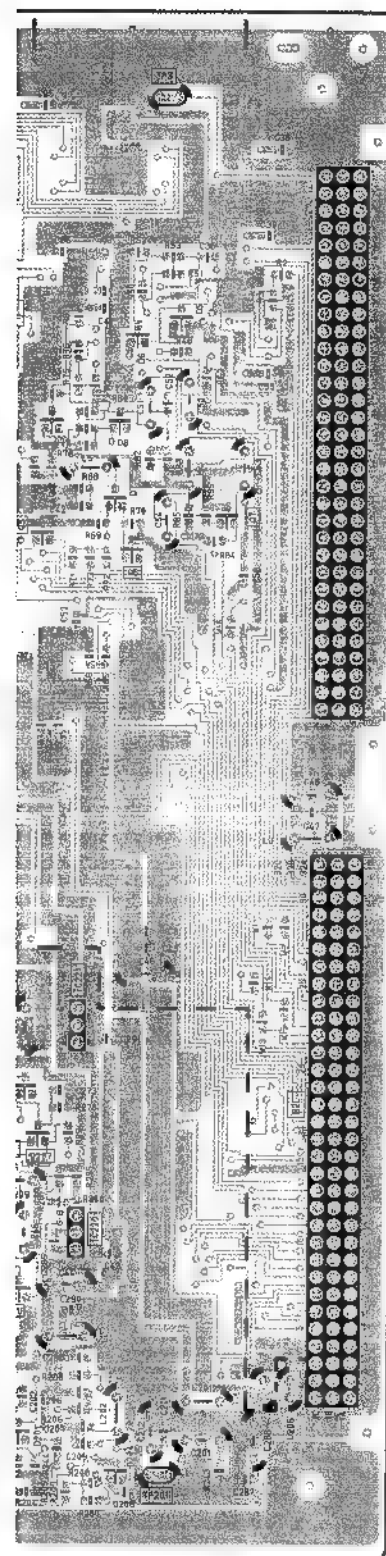
(FOIL SIDE)



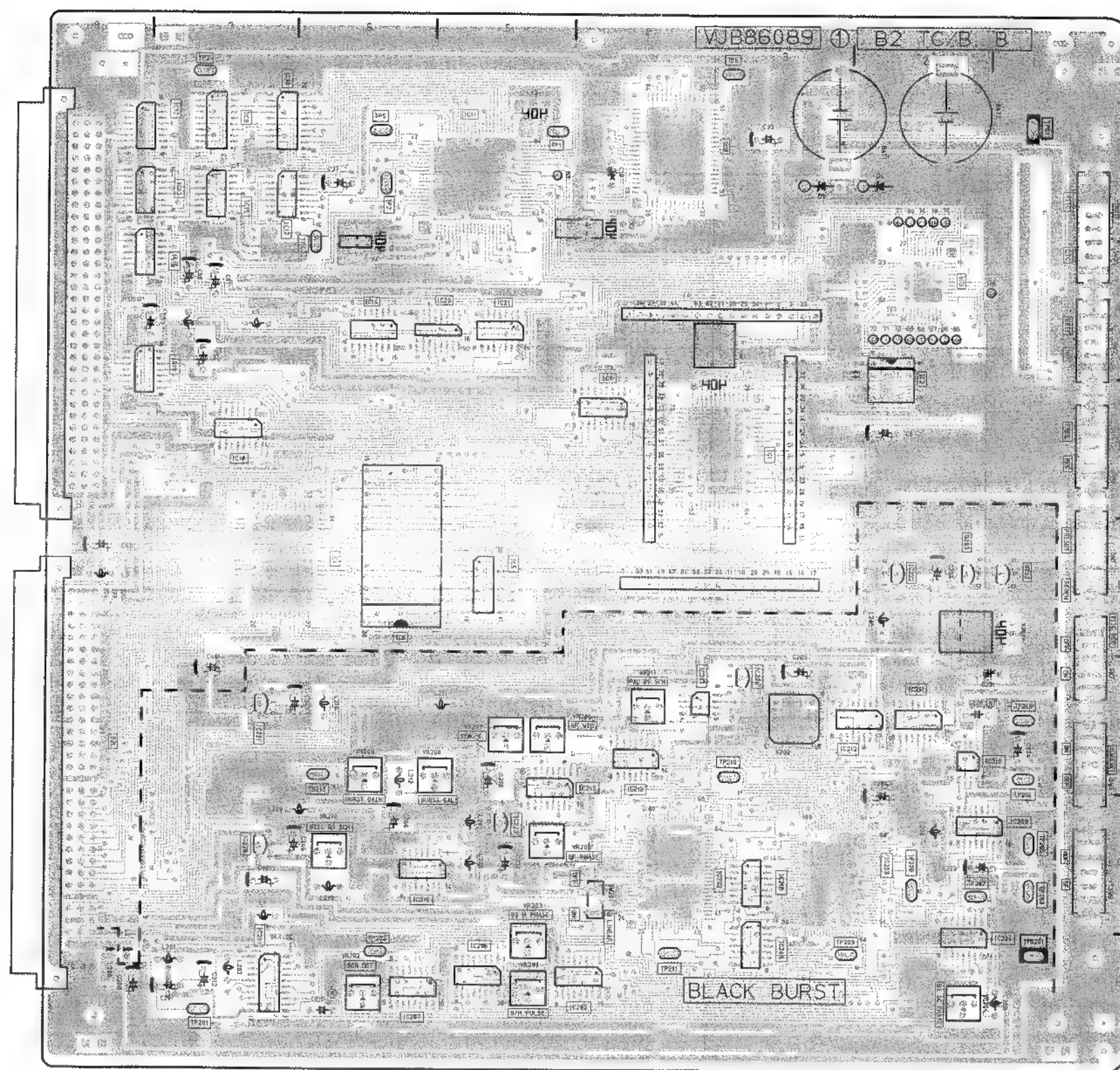
(CO)



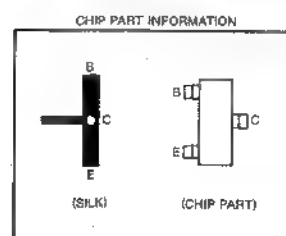




(FOIL SIDE)



(COMPONENT SIDE)



AU-F65 (TIME CODE)

| COMPONENT SIDE      |     |        |     | FOIL SIDE   |     |
|---------------------|-----|--------|-----|-------------|-----|
| Transistors         |     | TP5    |     | Transistors |     |
| Q202                | E-1 | TP6    | A-3 | Q1          | B-4 |
| Q203                | E-2 | TP201  | H-7 | Q2          | B-4 |
| Integrated Circuits |     | TP202  | H-6 | Q3          | B-3 |
|                     |     | TP203  | G-1 | Q4          | B-3 |
|                     |     | TP204  | F-1 | Q5          | C-6 |
|                     |     | TP205  | G-1 | Q6          | D-7 |
|                     |     | TP206  | F-1 | Q7          | C-7 |
|                     |     | TP207  | G-2 | Q8          | A-4 |
| IC1                 | D-3 | TP208  | G-2 | Q9          | B-3 |
| IC2                 | D-2 | TP209  | H-3 | Q201        | G-2 |
| IC3                 | C-2 | TP210  | F-3 | Q204        | F-5 |
| IC4                 | E-6 | TP211  | H-4 | Q205        | F-6 |
| IC5                 | E-5 | TP212  | F-6 | Q206        | F-6 |
| IC6                 | E-6 | TP GND |     | Q207        | F-7 |
| IC7                 | D-4 | TPG1   | B-1 | Q208        | G-6 |
| IC8                 | B-3 |        | H-1 | Q209        | G-6 |
| IC9                 | B-7 | Others |     | Q210        | G-6 |
| IC10                | B-7 |        |     | Q211        | G-6 |
| IC11                | B-5 | VR201  | H-5 | Q212        | G-6 |
| IC12                | B-8 | VR202  | H-6 | Q213        | F-6 |
| IC13                | B-8 | VR203  | H-5 |             |     |
| IC14                | C-6 | VR204  | H-2 |             |     |
| IC15                | B-7 | VR205  | G-5 |             |     |
| IC16                | C-8 | VR206  | F-5 |             |     |
| IC17                | B-7 | VR207  | F-5 |             |     |
| IC18                | D-7 | VR208  | F-5 |             |     |
| IC19                | C-8 | VR209  | F-6 |             |     |
| IC20                | C-5 | VR210  | G-6 |             |     |
| IC21                | C-5 | VR211  | F-4 |             |     |
| IC201               | H-7 |        |     |             |     |
| IC202               | G-3 |        |     |             |     |
| IC203               | G-2 |        |     |             |     |
| IC204               | H-2 |        |     |             |     |
| IC205               | H-4 |        |     |             |     |
| IC206               | H-5 |        |     |             |     |
| IC207               | H-6 |        |     |             |     |
| IC208               | H-3 |        |     |             |     |
| IC209               | G-2 |        |     |             |     |
| IC210               | F-2 |        |     |             |     |
| IC211               | F-2 |        |     |             |     |
| IC212               | F-2 |        |     |             |     |
| IC213               | F-4 |        |     |             |     |
| IC215               | F-5 |        |     |             |     |
| IC216               | G-6 |        |     |             |     |
| IC217               | F-4 |        |     |             |     |
| IC218               | G-3 |        |     |             |     |
| IC220               | G-7 |        |     |             |     |
| IC221               | F-7 |        |     |             |     |
| IC222               | E-2 |        |     |             |     |
| IC223               | G-5 |        |     |             |     |
| IC224               | F-3 |        |     |             |     |
| Test Points         |     |        |     |             |     |
| TP1                 | B-5 |        |     |             |     |
| TP2                 | B-6 |        |     |             |     |
| TP3                 | A-7 |        |     |             |     |
| TP4                 | C-6 |        |     |             |     |

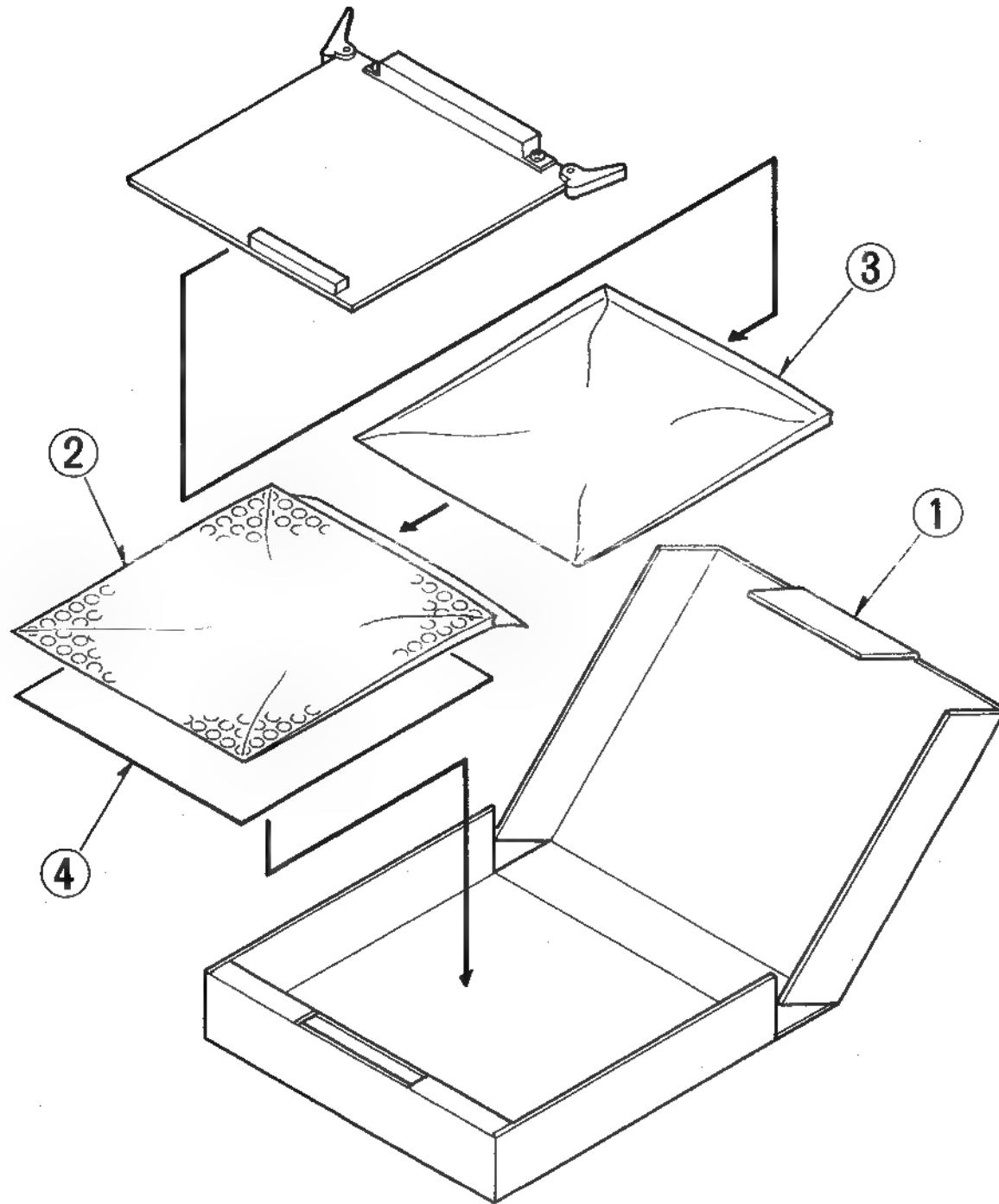


## ELECTRICAL REPLACEMENT PARTS LIST

| Ref.No. | Part No.    | Part Name & Description | Pcs | Remarks |
|---------|-------------|-------------------------|-----|---------|
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| BAT1,T2 | VSB0010     | BATTERY                 | 2   |         |
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|         |             |                         |     |         |
| B2L     | NJF2899B096 | CONNECTOR(MALE)         | 1   |         |
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| Ref.No. | Part No.    | Part Name & Description  | Pcs        | Remarks |
|---------|-------------|--------------------------|------------|---------|
| R66     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1          |         |
| R67     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1          |         |
| R68     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1          |         |
| R69,70  | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 2          |         |
| R71,72  | ERJ6GEYJ4R7 | M.RESISTOR CH 1/10W 4.7  | 2          |         |
| R73     | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68   | 1          |         |
| R74     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1          |         |
| R75     | ERJ6GEYJ394 | M.RESISTOR CH 1/10W 390K | 1          |         |
| R76     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1          |         |
| R77     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1          |         |
| R78     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1          |         |
| R79     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1          |         |
| R80     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1          |         |
| R81     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1          |         |
| R82     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1          |         |
| R83     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1          |         |
| R84     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1          |         |
| R85     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1          |         |
| R86     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1          |         |
| R87,88  | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2          |         |
| R89     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1          |         |
| R90     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1 AU-F65-P |         |
| R90     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1 AU-F65-E |         |
| R91     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1          |         |
| R92     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1          |         |
|         |             |                          |            |         |
| S61     | VSS0223     | SWITCH                   | 1          |         |
| S64,W5  | VSS0223     | SWITCH                   | 2          |         |
| S67     | VSS0223     | SWITCH                   | 1          |         |
|         |             |                          |            |         |
| TP1 -P6 | VJR0646     | TEST POINT               | 6          |         |
| TPO1    | VJR0646     | TEST POINT               | 1          |         |
| X1      | VSK0357     | CRYSTAL OSCILLATOR       | 1          |         |
| X2      | VSK0094     | CRYSTAL OSCILLATOR       | 1          |         |
| X3      | VSK0284     | CRYSTAL OSCILLATOR       | 1          |         |
| X4      | VSK0358     | CRYSTAL OSCILLATOR       | 1 AU-F65-P |         |
| X4      | VSK0098     | CRYSTAL OSCILLATOR       | 1 AU-F65-E |         |
|         |             |                          |            |         |
|         |             | MISCELLANEOUS            |            |         |
|         | VM12143     | CARD FULLER              | 1          |         |
|         | VM12144     | CARD FULLER              | 1          |         |
|         | VMS4174     | PIN                      | 4          |         |
|         | VMZ1548     | BARRIER                  | 1          |         |
|         | VSC3057     | SHIELD CASE              | 1          |         |
|         | VXA3967     | P.C.B. SHIELD PLATE      | 1          |         |
|         | ONG26E      | NUT                      | 2          |         |
|         | ONG3ES      | NUT                      | 2          |         |
|         | XSN3+6S     | SCREW                    | 2          |         |
|         | XYNV3+K6ER  | SCREW                    | 4          |         |
|         | XYN26+C10   | SCREW                    | 2          |         |

## PACKING

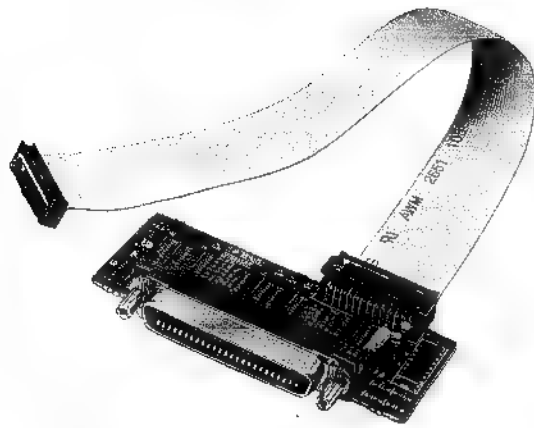


## PACKING

[illegible]

50Pin Parallel Remote Connector

**AU-MK25**

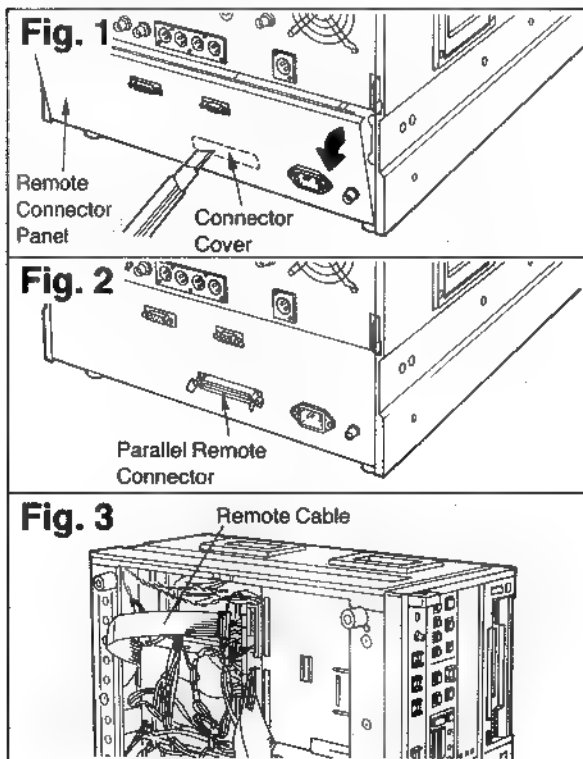


## INTRODUCTION

AU-MK25 is a 50 Pin Parallel Remote Connector for use with the AU-65, AU-63 or the AU-62. When AU-MK25 is attached with the AU-65, AU-63 or the AU-62, it makes possible to control them by 50 pin cable.

This Section contains technical information covering the following points, schematic diagrams, P.C.Board diagrams, and parts list of AU-MK25.

### How to attach the Parallel Remote Connector AU-MK25 to AU-65

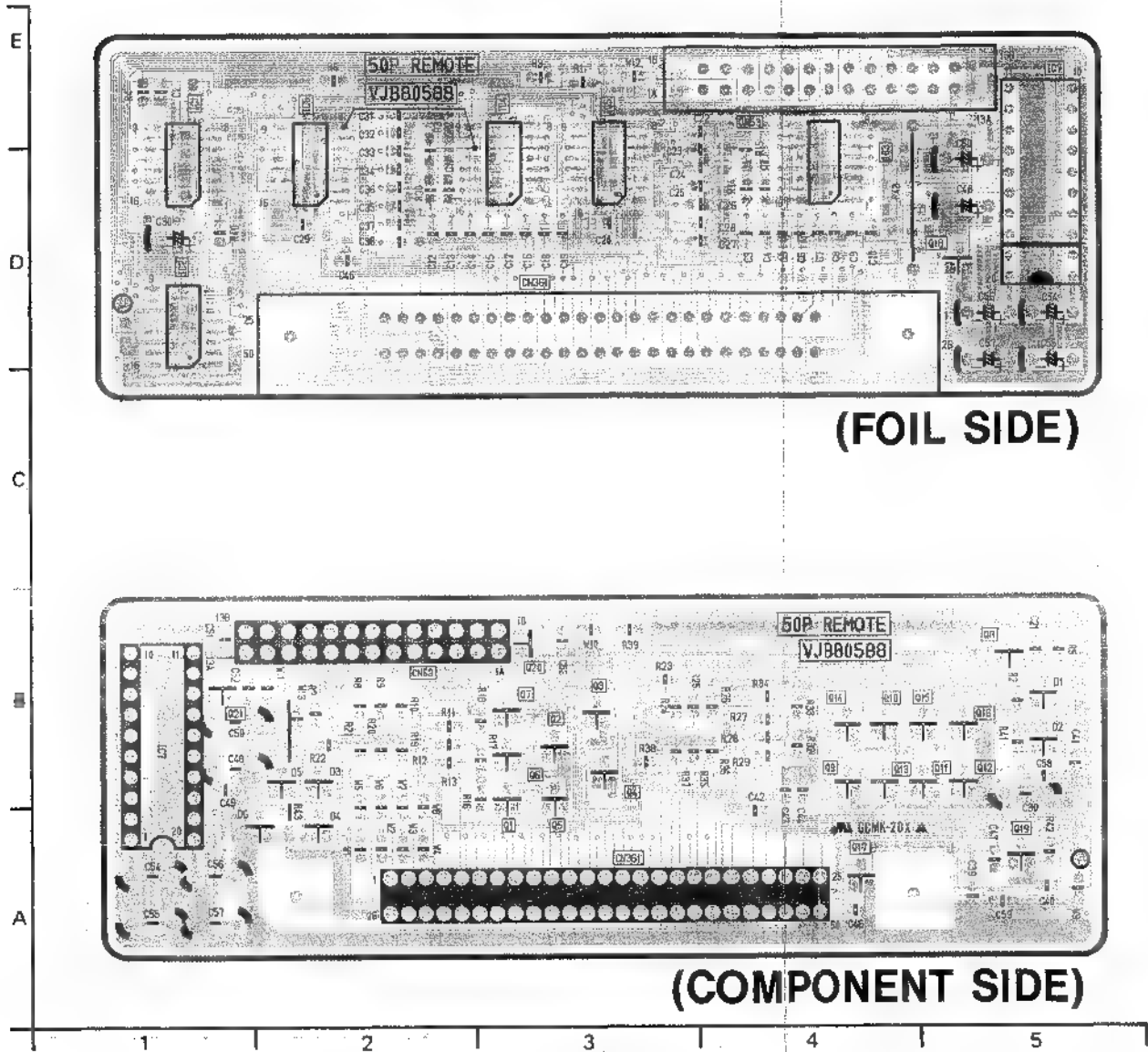


1. Remove the remote connector panel and connector cover of the AU-65 (Fig. 1).
2. Attach the parallel remote connector using the screwdriver (Fig. 2).
3. Remove the bottom panel and connect the remote cable (supplied) as shown (Fig. 3).
4. Attach the bottom and the remote connector panels.

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|

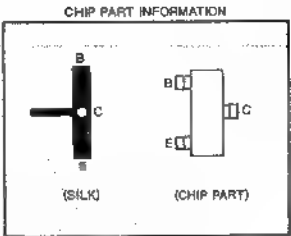


AU-MK25 P.C.BOARD (VEP80574A)



| AU-MK25 (VEP80588A) |     |                |     |                  |     |
|---------------------|-----|----------------|-----|------------------|-----|
| FOIL SIDE           |     | COMPONENT SIDE |     | Q14              | B-4 |
| TRANSISTOR          |     | TRANSISTOR     |     | Q15              | B-5 |
| Q18                 | D-5 | Q1             | B-3 | Q16 <td>B-5</td> | B-5 |
| INTEGRATED CIRCUIT  |     | Q2             | B-3 | Q17 <td>A-4</td> | A-4 |
| IC1                 | D-1 | Q3             | B-3 | Q19 <td>A-5</td> | A-5 |
| IC2                 | D-1 | Q4             | B-3 | Q20 <td>B-3</td> | B-3 |
| IC3                 | D-4 | Q5             | B-3 | Q21              | B-1 |
| IC4                 | D-3 | Q6             | B-3 |                  |     |
| IC5                 | D-3 | Q7             | B-3 |                  |     |
| IC6                 | D-2 | Q8             | B-5 |                  |     |
| IC7                 | D-5 | Q9             | B-4 |                  |     |
| CONNECTOR           |     | Q10            | B-4 |                  |     |
| CN53                | E-4 | Q11            | B-5 |                  |     |
| CN361               | D-3 | Q12            | B-5 |                  |     |
|                     |     | Q13            | B-4 |                  |     |

ADDRESS INFORMATION

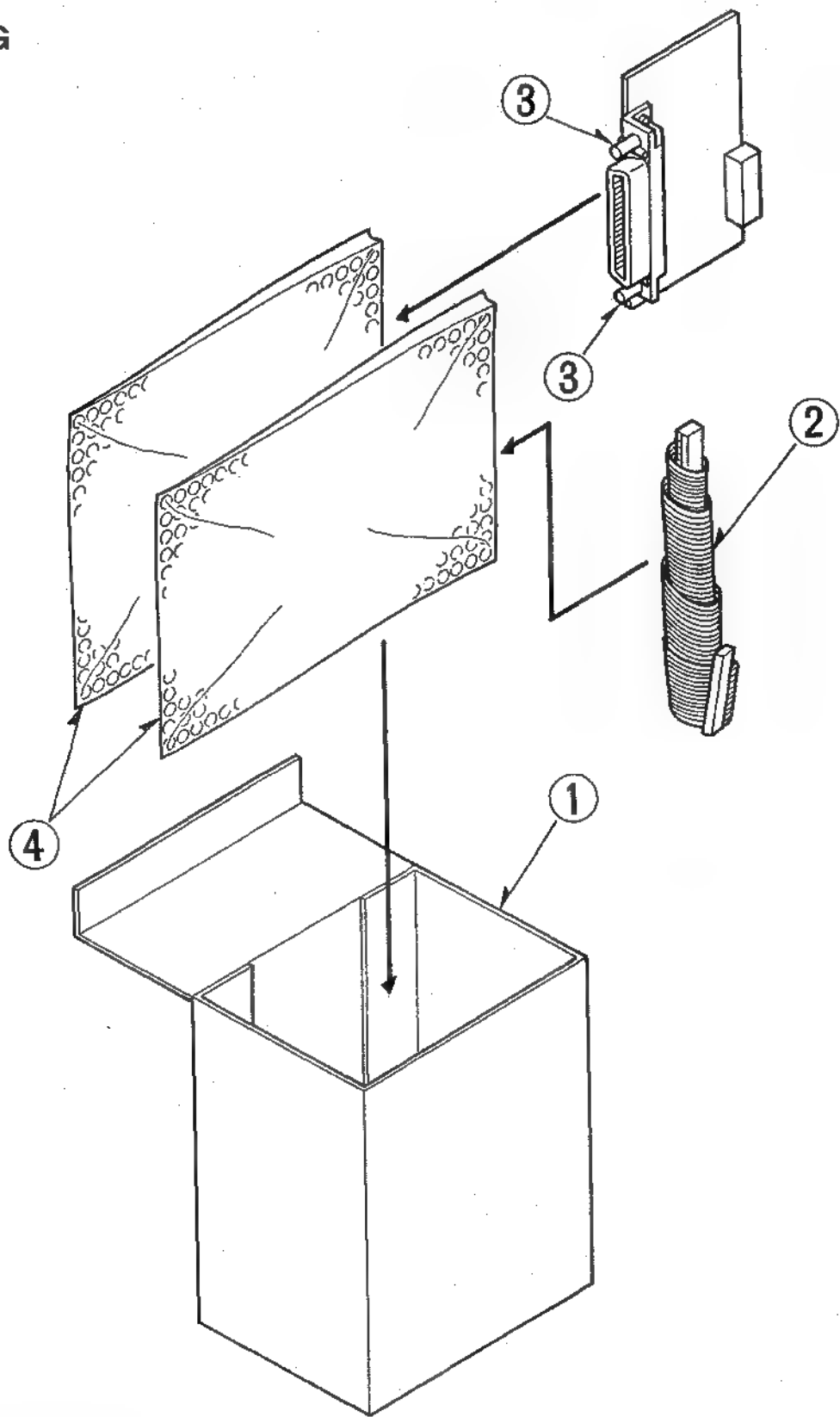


## ELECTRICAL REPLACEMENT PARTS LIST

| Ref.No. | Part No.     | Part Name ■ Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|---------|
|         |              | CAPACITORS               |     |         |
| C1      | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C2      | ECUM1H1032FN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C3-C9   | ECUM1H102KBN | C.CAPACITOR CH 50V 1000P | 7   |         |
| C10     | ECUM1H102KBN | C.CAPACITOR CH 50V 1000P | 1   |         |
| C11     | ECUM1H1032FN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C12-19  | ECUM1H102KBN | C.CAPACITOR CH 50V 1000P | 8   |         |
| C20     | ECUM1H1032FN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C21-28  | ECUM1H102KBN | C.CAPACITOR CH 50V 1000P | 8   |         |
| C29     | ECUM1H1032FN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C30     | ECBA1CU100   | E.CAPACITOR 16V 10U      | 1   |         |
| C31-46  | ECUM1H102KBN | C.CAPACITOR CH 50V 1000P | 16  |         |
| C47     | ECUM1H471JCN | C.CAPACITOR CH 50V 470P  | 1   |         |
| C48     | ECBA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
| C49     | ECUM1H1032FN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C50     | ECBA0JU470   | E.CAPACITOR 6.3V 47U     | 1   |         |
| C51     | ECUM1H1032FN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C58,59  | ECUM1H1032FN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |                          |     |         |
| CN53    | VJP2856B026  | CONNECTOR (MALE)         | 1   |         |
| CN361   | VJS1580      | CONNECTOR (FEMALE)       | 1   |         |
|         |              |                          |     |         |
| D1,D2   | MA151K       | DIODE                    | 2   |         |
|         |              |                          |     |         |
| IC1     | MC14050BP    | IC                       | 1   |         |
| IC2     | MC14049UBF   | IC                       | 1   |         |
| IC3,C4  | MC14021BF    | IC                       | 2   |         |
| IC5,C5  | MC14094BF    | IC                       | 2   |         |
|         |              |                          |     |         |
| Q1-Q9   | DTCL14YK     | TRANSISTOR-RESISTOR      | 9   |         |
| Q10-19  | DTCL14YK     | TRANSISTOR-RESISTOR      | 10  |         |
|         |              |                          |     |         |
|         |              | RESISTORS                |     |         |
| R1      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R2      | ERJ6GEYJ474  | M.RESISTOR CH 1/10W 470K | 1   |         |
| R3      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R4      | ERJ6GEYJ474  | M.RESISTOR CH 1/10W 470K | 1   |         |
| R5      | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R5      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R7-R9   | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R10-39  | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 30  |         |
| R40     | ERJ6GEYJ474  | M.RESISTOR CH 1/10W 470K | 1   |         |
| R41     | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R42     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R43     | ERQ12HJ2R7   | F.RESISTOR 1/2W 2.7      | 1   |         |
|         |              |                          |     |         |
|         |              | MISCELLANEOUS            |     |         |
|         | UMA6578      | CONNECTORS ANGLE         | 2   |         |
|         | XYN3-C10     | SCREW                    | 2   |         |

MECHANICAL REPLACEMENT PARTS LIST

PACKING



PACKING

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |  |  |  |  |  |  |
|----------|----------|-------------------------|-----|---------|--|--|--|--|--|--|
| 1        | VPG5340  | PACKING CASE            | 1   |         |  |  |  |  |  |  |
| 2        | VECO629  | JACK CABLE              | 1   |         |  |  |  |  |  |  |
| 3        | VHD0178  | SOP CONNECTOR BOSS      | 2   |         |  |  |  |  |  |  |
| 4        | VPE0536  | AIR CAP BAG             | 2   |         |  |  |  |  |  |  |



# Technical Bulletin

## Supplement to the Service Manual

MII Video Product

### Subject: Introduction of New DEC & CTCM (W4) P.C.Board

Please use this supplement together with the Service Manual(s) and model(s) (■) as follows:

|                          | Model No. | Bulletin | Order No.     | Effective from |                          | Model No. | Bulletin | Order No.        | Effective from |
|--------------------------|-----------|----------|---------------|----------------|--------------------------|-----------|----------|------------------|----------------|
| <input type="checkbox"/> | AU-65E    |          | VQS0264 ✓     |                | <input type="checkbox"/> | AU-66SE   |          | VQS0270          |                |
| <input type="checkbox"/> | AU-63E    |          | VQS0264 ✓     |                | <input type="checkbox"/> | AU-56HE   |          | VSD9304M503 ✓    |                |
| <input type="checkbox"/> | AU-62E    |          | VQS0264 ✓     |                | <input type="checkbox"/> | AU-45HE   |          | VSD9304M504      |                |
| ■                        | AU-65HE   | 91       | VSD9204M501 ✓ | K4TNA ---      | ■                        | AU-W35HE  | 24       | VSD9406M506A/B ✓ | J4TNA ---      |
| <input type="checkbox"/> | AU-63HE   |          | VSD9204M501 ✓ |                | <input type="checkbox"/> | AU-W33HE  |          | VSD9406M506A/B ✓ |                |
| <input type="checkbox"/> | AU-62HE   |          | VSD9204M501 ✓ |                | <input type="checkbox"/> | AU-W32HE  |          | VSD9406M506A/B ✓ |                |
| ■                        | AU-66HE   | 67       | VSD9208M502 ✓ | K4TNA ---      | <input type="checkbox"/> | COMMON    |          |                  |                |

Board : DEC &amp; CTCM (W4 : VEP83199B)

To improve manufacturing productivity, a new DEC & CTCM (W4) P.C.Board has been introduced.

The following items are included in this Service Manual Supplement.

- 1) Electrical Adjustment Procedures.
- 2) Block Diagrams.
- 3) Schematic Diagrams.
- 4) Circuit Board Diagrams.
- 5) Electrical Replacement Parts List.

#### Interchangeability Code (I/C)

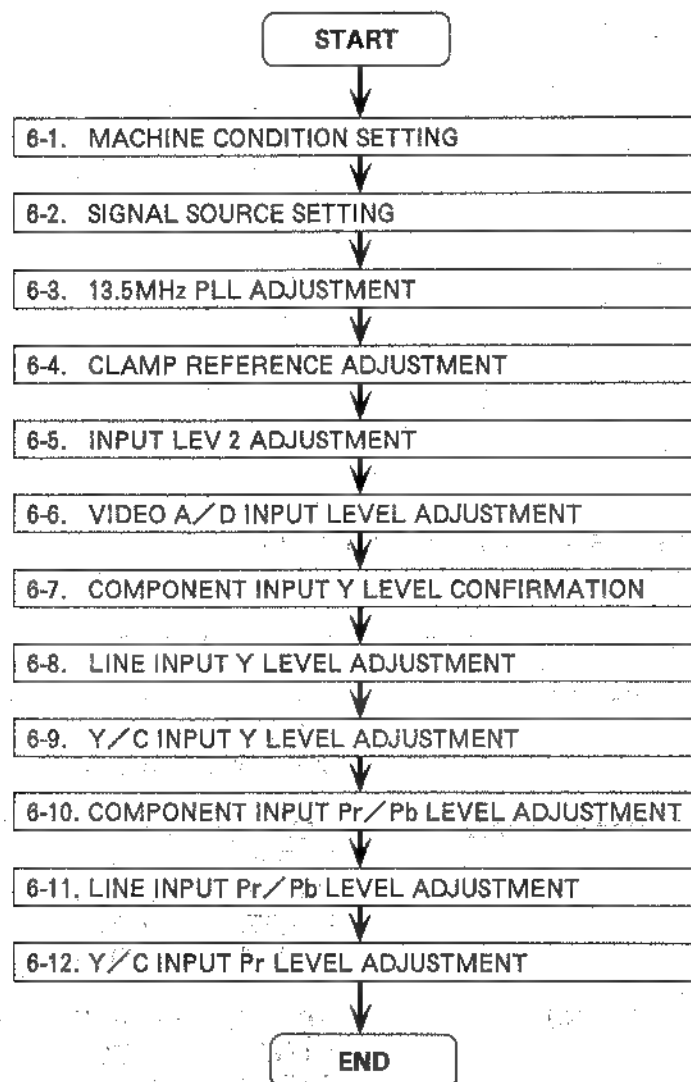
|   |   |   |   |
|---|---|---|---|
| A | Original or new parts may be used in early or late production set.<br>Use original parts until exhausted, then stock new parts. | B | Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts possible then stock new parts. |
| C | New parts only may be used in early or late production sets.  | D | Original parts may be used in early production sets only.<br>New parts may be used in late production sets only. Stock both original and new parts.                 |
| E | Other   |   |   |

#### Part Number

| Ref. No. | Original Part No. | New Part No. | Part Name & Descriptions | Pcs | I/C | Remarks      |
|----------|-------------------|--------------|--------------------------|-----|-----|--------------|
|          | VEP83173A         | VEP83199B    | W4 DEC & CTCM            | 1   | A   | AU-66H / 65H |
|          | VEP83173C         | VEP83199B    | W4 DEC & CTCM            | 1   | A   | AU-W35H      |

## 6. DEC & CTCM (W4) BOARD (1 / 2)

### DEC & CTCM (1/2) SECTION FLOWCHART



## 6-1. MACHINE CONDITION SETTING

( W4 DEC & CTCM )

Set the switches on the FRONT PANEL as follows:

|                    |       |                |
|--------------------|-------|----------------|
| MODE               | _____ | EE             |
| VIDEO INPUT SELECT | _____ | LINE           |
| VIDEO IN LEVEL     | _____ | FIXED POSITION |

## 6-2. SIGNAL SOURCE SETTING

( W4 DEC & CTCM )

Confirm the output level of the signal Generator as follows:

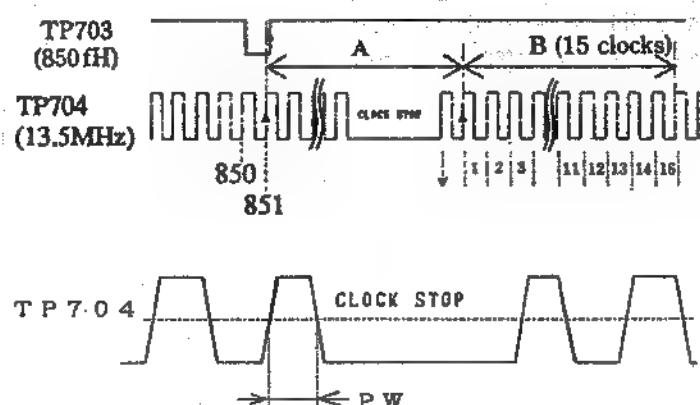
1. COMPOSITE SIGNAL : 100% colour bar (without SET UP)  
VIDEO LEVEL = 0.7Vp-p  
SYNC LEVEL = 0.3Vp-p
2. COMPONENT SIGNAL : 100% colour bar (without SET UP)  
Y LEVEL = 0.7Vp-p  
SYNC LEVEL = 0.3Vp-p  
Pb LEVEL = 0.7Vp-p  
Pr LEVEL = 0.7Vp-p
3. Y/C SIGNAL : 100% colour bar (without SET UP)  
Y LEVEL = 0.7Vp-p  
SYNC LEVEL = 0.3Vp-p  
C LEVEL = 0.885Vp-p

# 6-3. 13.5MHz PLL ADJUSTMENT

( W4 DEC & CTCM )

| TEST POINT | MODE           | TAPE USED                                  | M. EQ.       | INPUT SIGNAL                    | ADJUSTMENT       |
|------------|----------------|--|--------------|---------------------------------|------------------|
| TP701      | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE | COMPONENT<br>100%<br>COLOUR BAR | VL701 (PLL OFFS) |
| TP703      |                |  |              |                                 | VR702 (PLL POS)  |
| TP704      |                | ALIGNMENT<br><input type="checkbox"/> TAPE |              |                                 |                  |

## ADJUSTMENT PROCEDURE & SPECIFICATION

| MACHINE CONDITION   |   |
|---|---|
|   | 1. Refer to the SECTION 6-1.<br>2. VIDEO INPUT SELECT : COMPONENT   |
| <b>Step 1.</b><br><br>1. SCOPE CH1 : TP703<br>SCOPE CH2 : TP704<br>2. OSCILLOSCOPE SETTING<br>EXT TRIGGER : COMPOSITE SYNC from<br>SIGNAL GENERATOR<br>Delay Mode : 200ns/Div.<br>3. Adjust VR702 so that the "A" period<br>and "B" period are the same timing<br>and the "PW" period is $33 \pm 3\text{ns}$<br>as shown. |  <p>TP703 (850fH)</p> <p>TP704 (13.5MHz)</p> <p>850</p> <p>851</p> <p>A</p> <p>B (15 clocks)</p> <p>CLOCK STOP</p> <p>1 2 3 11 12 13 14 15</p> <p>TP704</p> <p>CLOCK STOP</p> <p>PW</p> <p><b>SPECIFICATION:</b><br/> <math>A : B = 100\% : 100\% \pm 2\%</math></p> |
| <b>Step 2.</b><br><br>1. SCOPE : TP701<br>2. Adjust VL701 so that the DC voltage<br>of TP701 is $0\text{V} \pm 0.2\text{V}$ .   |   |

# 6-4. CLAMP REFERENCE ADJUSTMENT

( W4 DEC & CTCM )

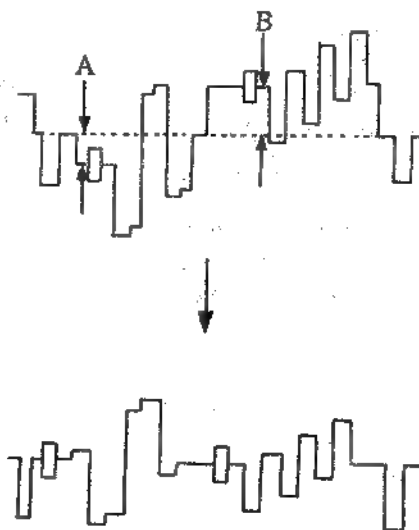
| TEST POINT | MODE           | TAPE USED                                  | M.EQ.        | INPUT SIGNAL                    | ADJUSTMENT                                   |
|------------|----------------|--|--------------|---------------------------------|--|
| TP601      | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE | COMPONENT<br>100%<br>COLOUR BAR | VR601 (PB CLAMP REF)<br>VR602 (PR CLAMP REF) |
|            |                | ALIGNMENT<br><input type="checkbox"/> TAPE |              |                                 |  |

## ADJUSTMENT PROCEDURE & SPECIFICATION

### MACHINE CONDITION

1. Refer to the SECTION 6-1.
2. VIDEO INPUT SELECT : COMPONENT

1. Adjust VR601 and VR602 so that level differences of "A" and "B" portion are minimum as shown.



## 6-5. INPUT LEV 2 ADJUSTMENT

( W4 DEC & CTCM )

1. Preset VR219 to the 12 o'clock position.



## 6-6. VIDEO A/D INPUT LEVEL ADJUSTMENT

( W4 DEC & CTCM )

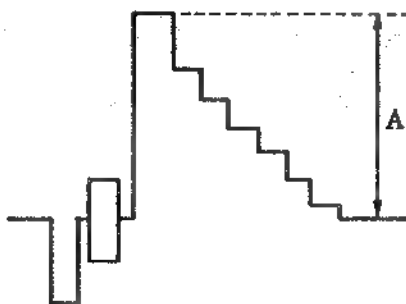
| TEST POINT | MODE           | TAPE USED                                  | M.EQ.        | INPUT SIGNAL                     | ADJUSTMENT        |
|------------|----------------|--|--------------|----------------------------------|-------------------|
| TP41       | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE | LINE INPUT<br>100%<br>COLOUR BAR | VR1 (INPUT LEV 1) |
|            |                | ALIGNMENT<br><input type="checkbox"/> TAPE |              |                                  |                   |

### ADJUSTMENT PROCEDURE & SPECIFICATION

| MACHINE CONDITION   | Refer to the SECTION 6-1.                          |
|---|--|
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>1. SCOPE : TP41</li> <li>2. Adjust VR1 so that the input signal level (A) is <math>1.4V_{p-p} \pm 0.02V_{p-p}</math> as shown.</li> </ol> | <p><math>A = 1.4V_{p-p} \pm 0.02V_{p-p}</math></p> |

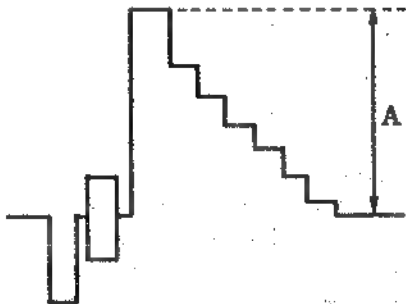
# 6-7. COMPONENT INPUT Y LEVEL CONFIRMATION

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED                                  | M. EQ.  | INPUT SIGNAL                    | ADJUSTMENT |
|---|----------------|--|---|---------------------------------|------------|
| TP504   | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOUR BAR | _____      |
|   |                | ALIGNMENT<br><input type="checkbox"/> TAPE |   |                                 |            |
| ADJUSTMENT PROCEDURE & SPECIFICATION  |                |  |   |                                 |            |
| MACHINE CONDITION   |                |  | 1. Refer to the SECTION 6-1.<br>2. VIDEO INPUT SELECT : COMPONENT   |                                 |            |
| Step 1.<br><br>1. SCOPE : TP504<br>2. Confirm that the Y LEVEL is 550mVp-p<br>± 30mVp-p as shown. |                |  |  <p>A = 550mVp-p ± 30mVp-p</p> |                                 |            |

# 6-8. LINE INPUT Y LEVEL ADJUSTMENT

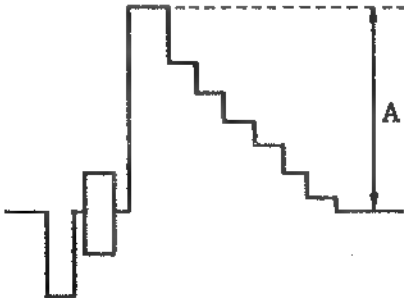
( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED                                  | M. EQ.   | INPUT SIGNAL                     | ADJUSTMENT      |
|---|----------------|--|--|----------------------------------|-----------------|
| TP504   | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE   | LINE INPUT<br>100%<br>COLOUR BAR | VR141 (Y LEV 1) |
|   |                | ALIGNMENT<br><input type="checkbox"/> TAPE |  |                                  |                 |
| ADJUSTMENT PROCEDURE & SPECIFICATION  |                |  |  |                                  |                 |
| MACHINE CONDITION   |                |  | 1. Refer to the SECTION 6-1.   |                                  |                 |
| <p>Step 1:</p> <ol style="list-style-type: none"> <li>SCOPE : TP504</li> <li>Adjust VR141 so that the Y level (A) satisfies the following conditions. <ol style="list-style-type: none"> <li>The Y level (A) is <math>550\text{mVp-p} \pm 30\text{mVp-p}</math> as shown.</li> <li>The difference between the Y level (A) of this adjustment and the Y level (A) of the COMPONENT INPUT Y LEVEL (6-7) is within <math>\pm 11\text{mVp-p}</math>.</li> </ol> </li> </ol> |                |  |  <p><math>A = 550\text{mVp-p} \pm 30\text{mVp-p}</math></p> |                                  |                 |



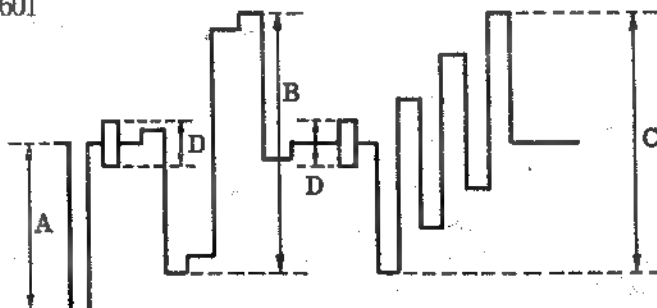
# 6-9. Y/C INPUT Y LEVEL ADJUSTMENT

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED                                  | M. EQ.   | INPUT SIGNAL                   | ADJUSTMENT      |
|--|----------------|--|--|--------------------------------|-----------------|
| TP504  | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE   | YC INPUT<br>100%<br>COLOUR BAR | VR142 (Y LEV 2) |
|  |                | ALIGNMENT<br><input type="checkbox"/> TAPE |  |                                |                 |
| ADJUSTMENT PROCEDURE & SPECIFICATION   |                |  |  |                                |                 |
| MACHINE CONDITION  |                |  | 1. Refer to the SECTION 6-1.<br>2. VIDEO INPUT SELECT : YC<br>3. LINE INPUT Y LEVEL ADJ. (6-8) should be completed before this adjustment is done. |                                |                 |
| Step 1.<br><br>1. SCOPE : TP504<br>2. Adjust VR142 so that the Y level (A) satisfies the following conditions.<br>1) The Y level (A) is 550mVp-p $\pm$ 30mVp-p as shown.<br>2) The difference between the Y level (A) of this adjustment and the Y level (A) of the COMPONENT INPUT Y LEVEL (6-7) is within $\pm 11\text{mVp-p}$ . |                |  |  <p><math>A = 550\text{mVp-p} \pm 30\text{mVp-p}</math></p>     |                                |                 |

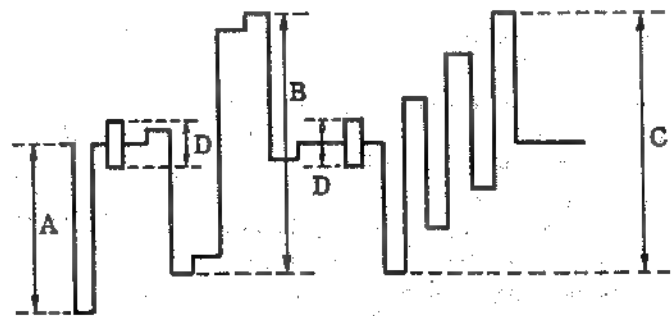
## 6-10. COMPONENT INPUT Pr/Pb LEVEL ADJUSTMENT

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED                                  | M.EQ.   | INPUT SIGNAL                    | ADJUSTMENT                               |
|---|----------------|--|---|---------------------------------|--|
| TP601   | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOUR BAR | VR501 (Pr LEV 2)<br><br>VR502 (Pb LEV 2) |
|   |                | ALIGNMENT<br><input type="checkbox"/> TAPE |   |                                 |  |
| ADJUSTMENT PROCEDURE & SPECIFICATION  |                |  |   |                                 |  |
| MACHINE CONDITION   |                |  | 1. Refer to the SECTION 6-1.<br>2. VIDEO INPUT SELECT : COMPONENT   |                                 |  |
| Step 1.<br><br>1. SCOPE : TP601   |                |  | <div>TP601</div>  <div>A = 650mVp-p ± 100mVp-p</div> |                                 |  |
| Step 2.<br><br>1. Confirm that the sync level (A) is 650mVp-p ± 100mVp-p as shown.<br>2. Set the sync level (A) to 6.5 divisions on the oscilloscope display (uncalibrated).<br>3. Confirm that the B and C levels are as shown below.<br>B = 7.0 divisions ± 0.2 divisions<br>C = 7.0 divisions ± 0.2 divisions<br>4. If it is not within specification, adjust VR501 so that the Pr level (B) is 7.0 divisions ± 0.2 divisions and adjust VR502 so that the Pb level (C) is 7.0 divisions ± 0.2 divisions.<br>5. After this adjustment, confirm the Burst level (D) is 3.0 divisions ± 0.2 divisions. |                |  |   |                                 |  |

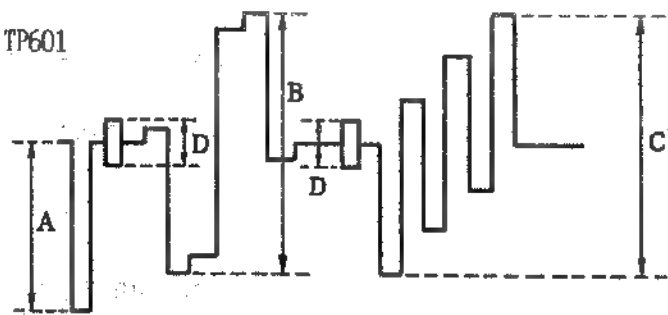
# 6-11. LINE INPUT Pr/Pb LEVEL ADJUSTMENT

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED                                  | M.EQ.  | INPUT SIGNAL                     | ADJUSTMENT                           |
|---|----------------|--|--|----------------------------------|--------------------------------------|
| TP601   | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE   | LINE INPUT<br>100%<br>COLOUR BAR | VR215 (PR LEV 1)<br>VR213 (PB LEV 1) |
|   |                | ALIGNMENT<br><input type="checkbox"/> TAPE |  |                                  |                                      |
| ADJUSTMENT PROCEDURE & SPECIFICATION  |                |  |  |                                  |                                      |
| MACHINE CONDITION   |                |  | 1. Refer to the SECTION 6-1.<br>2. COMPONENT INPUT Pr/Pb LEVEL ADJ. (6-10) should be completed before this adjustment is done. |                                  |                                      |
| Step 1.<br><br>1. SCOPE : TP601<br>2. Set the sync level (A) to 6.5 divisions on the oscilloscope display (uncalibrated).<br>3. Confirm that the B and C levels are as shown below.<br>■ = 7.0 divisions $\pm$ 0.2 divisions<br>C = 7.0 divisions $\pm$ 0.2 divisions<br>4. If it is not within specification, adjust VR215 so that the Pr level (B) is 7.0 divisions $\pm$ 0.2 divisions and adjust VR213 so that the Pb level (C) is 7.0 divisions $\pm$ 0.2 divisions. |                |  | TP601<br><br>                              |                                  |                                      |

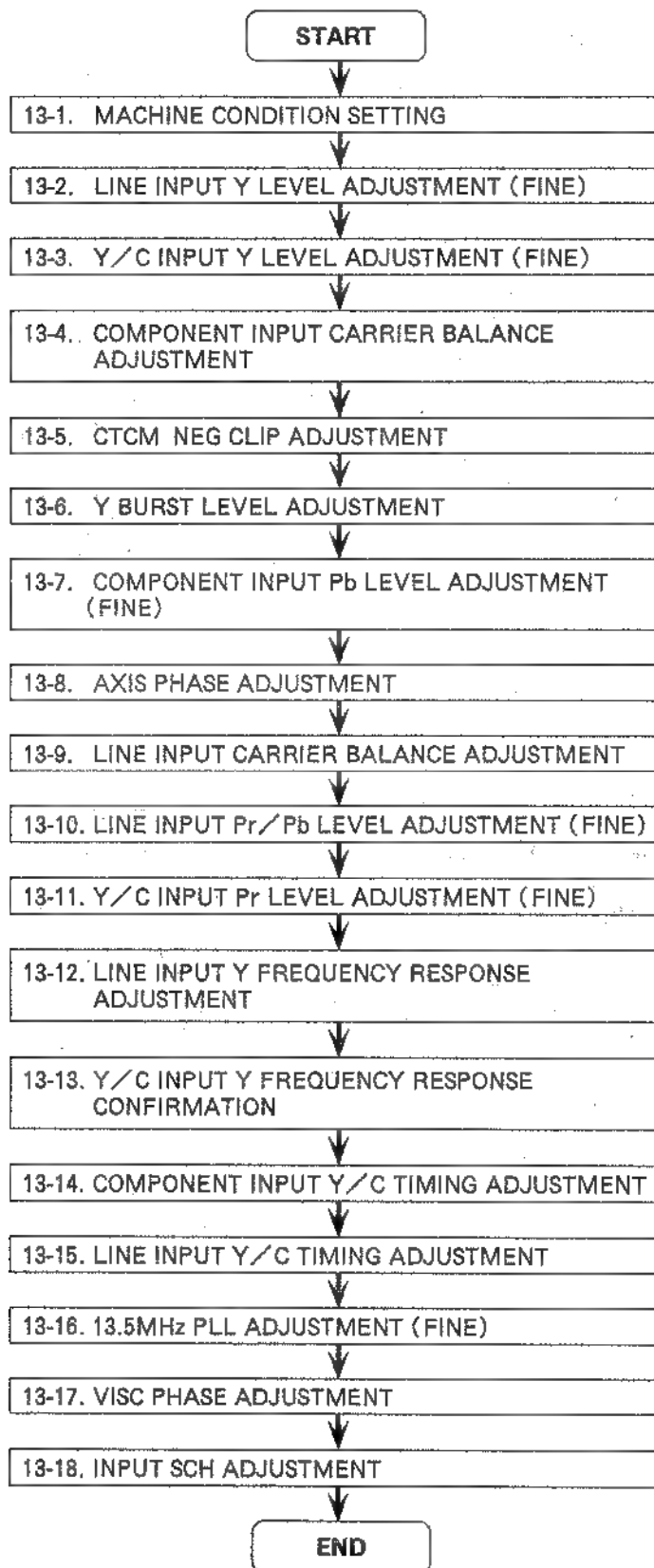
## 6-12. Y/C INPUT Pr LEVEL ADJUSTMENT

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED                                  | M.EQ.  | INPUT SIGNAL                   | ADJUSTMENT    |
|---|----------------|--|--|--------------------------------|---------------|
| TP601   | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE   | YC INPUT<br>100%<br>COLOUR BAR | VR165 (C LEV) |
|   |                | ALIGNMENT<br><input type="checkbox"/> TAPE |  |                                |               |
| ADJUSTMENT PROCEDURE & SPECIFICATION  |                |  |  |                                |               |
| MACHINE CONDITION   |                |  | 1. Refer to the SECTION 6-1.<br>2. VIDEO INPUT SELECT : YC<br>3. The following adjustment should be completed before this adjustment is done.<br>1) COMPONENT INPUT Pr/Pb LEVEL ADJ. (6-10)<br>2) LINE INPUT Pr/Pb LEVEL ADJ. (6-11) |                                |               |
| Step 1.<br><br>1. SCOPE : TP601<br>2. Set the sync level (A) to 6.5 divisions on the oscilloscope display (uncalibrated).<br>3. Confirm that the B level is 7.0 divisions $\pm$ 0.2 divisions.<br>4. If it is not within specification, adjust VR165 so that the Pr level (B) is 7.0 divisions $\pm$ 0.2 divisions. |                |  | <div style="text-align: center;">  <p>TP601</p> </div>   |                                |               |

# 1 3 . DEC & CTCM (W 4 ) BOARD ( 2 / 2 )

## DEC & CTCM (2/2) SECTION FLOWCHART



### 13-1. MACHINE CONDITION SETTING

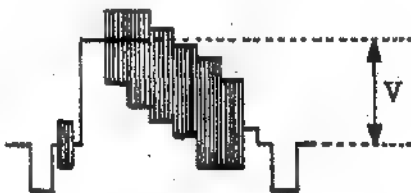
( W4 DEC & CTCM )

Set the switches on the Front Panel of follows:

MODE \_\_\_\_\_ EE  
 VIDEO INPUT SELECT \_\_\_\_\_ LINE  
 VIDEO IN LEVEL \_\_\_\_\_ FIXED POSITION


### 13-2. LINE INPUT Y LEVEL ADJUSTMENT (FINE)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                     | ADJUSTMENT      |
|---|----------------|-----------|---|----------------------------------|-----------------|
| VIDEO 1 OUT<br>(AU-W35H)<br>VIDEO 2 OUT<br>(AU-66H/65H)<br>(W/75ohm<br>Termination)           | E-E<br>(EJECT) | _____     | WAVEFORM<br>MONITOR   | LINE INPUT<br>100%<br>COLOUR BAR | VR141 (Y LEV 1) |
| Step 1.<br><br>MACHINE CONDITION  |                |           | 1. Refer to the SECTION 13-1.   |                                  |                 |
| Step 2.<br><br>1. Adjust VR141 so that the Y level<br>(V) is $0.7 \pm 0.016V_{p-p}$ as shown. |                |           |  <p><math>V = 0.7 \pm 0.016V_{p-p}</math></p> |                                  |                 |

# 13-3. Y/C INPUT Y LEVEL ADJUSTMENT (FINE)

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.   | INPUT SIGNAL                   | ADJUSTMENT      |
|---|----------------|-----------|---|--------------------------------|-----------------|
| VIDEO 1 OUT<br>(AU-W35H)<br>VIDEO 2 OUT<br>(AU-66H/65H)<br>(W/75ohm<br>Termination)           | E-E<br>(EJECT) | -----     | WAVEFORM<br>MONITOR   | YC INPUT<br>100%<br>COLOUR BAR | VR142 (Y LEV 2) |
| Step 1.<br><br>MACHINE CONDITION  |                |           | 1. Refer to the SECTION 13-1.<br>2. VIDEO INPUT SELECT : YC   |                                |                 |
| Step 2.<br><br>1. Adjust VR142 so that the Y level<br>(V) is $0.7 \pm 0.016V_{p-p}$ as shown. |                |           |  <p><math>V = 0.7 \pm 0.016V_{p-p}</math></p> |                                |                 |

# 13-4. COMPONENT INPUT CARRIER BALANCE ADJUSTMENT

( W4 DEC & CTCM )

| TEST POINT             | MODE           | TAPE USED                                  | M.EQ.        | INPUT SIGNAL                    | ADJUSTMENT                                   |
|------------------------|----------------|--|--------------|---------------------------------|--|
| COMPONENT<br>Pb/Pr OUT | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE | COMPONENT<br>100%<br>COLOUR BAR | VR601 (PB CLAMP REF)<br>VR602 (PR CLAMP REF) |
|                        |                | ALIGNMENT<br><input type="checkbox"/> TAPE |              |                                 |  |

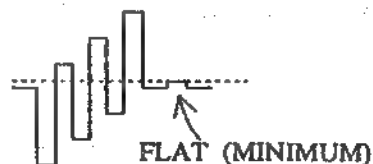
## ADJUSTMENT PROCEDURE & SPECIFICATION

### MACHINE CONDITION

1. Refer to the SECTION 13-1.
2. VIDEO INPUT SELECT : COMPONENT

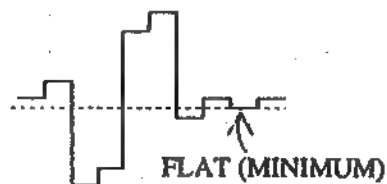
### Step 1.

1. SCOPE : COMPONENT Pb OUT
2. Adjust VR601 so that the burst portion of Pb signal is "flat" as shown.



### Step 2.

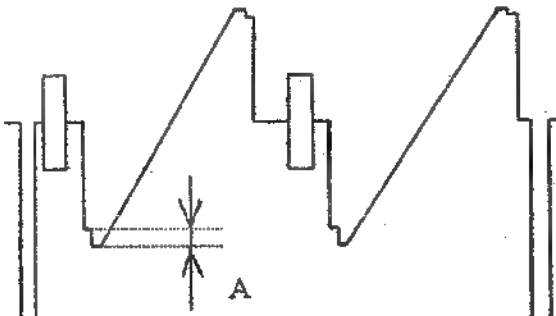
1. SCOPE : COMPONENT Pr OUT
2. Adjust VR602 so that the burst portion of Pr signal is "flat" as shown.





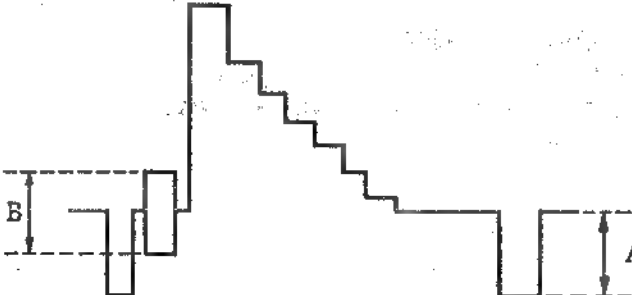
# 13-5. CTCM NEG CLIP ADJUSTMENT

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED                                  | M. EQ.   | INPUT SIGNAL                    | ADJUSTMENT          |
|---|----------------|--|--|---------------------------------|---------------------|
| TP601   | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE   | COMPONENT<br>RAMP<br>(OVERSIZE) | VR503<br>(NEG CLIP) |
|   |                | ALIGNMENT<br><input type="checkbox"/> TAPE |  |                                 |                     |
| ADJUSTMENT PROCEDURE & SPECIFICATION                                    |                |  |  |                                 |                     |
| MACHINE CONDITION   |                |  | 1. Refer to the SECTION 13-1.<br>2. VIDEO INPUT SELECT : COMPONENT   |                                 |                     |
| 1. Adjust VR503 so that the A portion is 60mVp-p $\pm$ 5mVp-p as shown. |                |  |  <p><math>A = 60\text{mVp-p} \pm 5\text{mVp-p}</math></p> |                                 |                     |

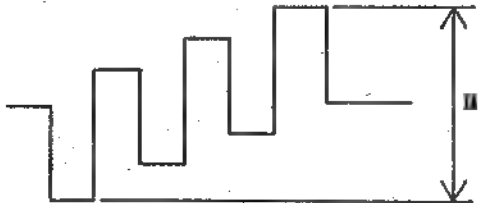
### 13-6. Y BURST LEVEL ADJUSTMENT

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED                                  | M. EQ.  | INPUT SIGNAL                    | ADJUSTMENT       |
|---|----------------|--|---|---------------------------------|------------------|
| TP504   | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE  | COMPONENT<br>100%<br>COLOUR BAR | VR906 (Y BU LEV) |
|   |                | ALIGNMENT<br><input type="checkbox"/> TAPE |   |                                 |                  |
| ADJUSTMENT PROCEDURE & SPECIFICATION  |                |  |   |                                 |                  |
| MACHINE CONDITION   |                |  | 1. Refer to the SECTION 13-1.<br>2. VIDEO INPUT SELECT : COMPONENT  |                                 |                  |
| Step 1.<br><br>1. SCOPE : TP504<br>2. Set the sync level (A) to 3.0 divisions on the oscilloscope display (uncalibrated). |                |  | <br>A = 3.0 DIVISIONS<br>B = 3.0 ± 0.1 DIVISIONS |                                 |                  |
| Step 2.<br><br>1. Adjust the Burst level (B) is 3.0 ± 0.1 divisions against the sync level (A) as shown.                  |                |  |   |                                 |                  |

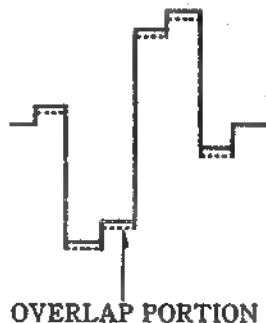
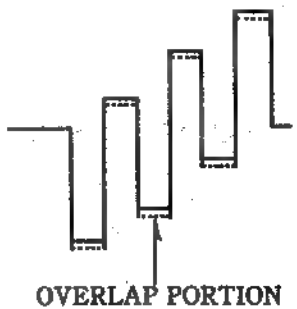
### 13-7. COMPONENT INPUT Pb LEVEL ADJUSTMENT (FINE)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED | M. EQ.   | INPUT SIGNAL                    | ADJUSTMENT       |
|--|----------------|-----------|--|---------------------------------|------------------|
| COMPONENT<br>Pb OUT<br>(w/75ohm<br>Termination)                                      | E-E<br>(EJECT) | —         | OSCILLOSCOPE   | COMPONENT<br>100%<br>COLOUR BAR | VR502 (Pb LEV 2) |
| MACHINE CONDITION  |                |           | 1. Refer to the SECTION 13-1.<br>2. VIDEO INPUT SELECT : COMPONENT                   |                                 |                  |
| Step 1.<br><br>1. Adjust VR502 so that the Pb level (B) is 0.7 ± 0.016Vp-p as shown. |                |           |  |                                 |                  |

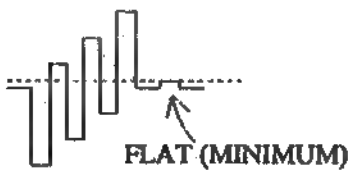
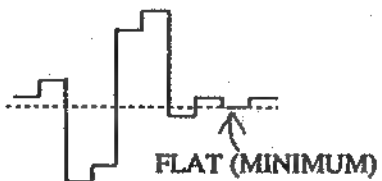
# 13-8. AXIS PHASE ADJUSTMENT

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED   | M.EQ.  | INPUT SIGNAL                  | ADJUSTMENT                       |
|---|----------------|---|--|-------------------------------|----------------------------------|
| COMPONENT<br>Pb/Pr OUT<br>(w/75ohm<br>Termination)  | E-E<br>(EJECT) | <div>BLANK<br/><input type="checkbox"/> TAPE</div> <div>ALIGNMENT<br/><input type="checkbox"/> TAPE</div> | OSCILLOSCOPE   | LINE IN<br>100%<br>COLOUR BAR | VR218 (AXIS 1)<br>VC401 (AXIS 2) |
| ADJUSTMENT PROCEDURE & SPECIFICATION  |                |   |  |                               |                                  |
| MACHINE CONDITION   |                |   | 1. Refer to the SECTION 13-1.  |                               |                                  |
| Step 1.<br>1. SCOPE : COMPONENT Pr OUT<br>2. Adjust VR218 so that the overlap<br>portion of waveform becomes minimum<br>as a whole. |                |   |   |                               |                                  |
| Step 2.<br>1. SCOPE : COMPONENT Pb OUT<br>2. Adjust VC401 so that the overlap<br>portion of waveform becomes minimum<br>as a whole. |                |   |  |                               |                                  |

# 13-9. LINE INPUT CARRIER BALANCE ADJUSTMENT

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED                                  | M. EQ.  | INPUT SIGNAL                  | ADJUSTMENT        |
|--|----------------|--|---|-------------------------------|-------------------|
| COMPONENT<br>Pb/Pr OUT   | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE  | LINE IN<br>100%<br>COLOUR BAR | VR216 (PB BLK DC) |
|  |                | ALIGNMENT<br><input type="checkbox"/> TAPE |   |                               | VR217 (PR BLK DC) |
| ADJUSTMENT PROCEDURE & SPECIFICATION   |                |  |   |                               |                   |
| MACHINE CONDITION  |                |  | 1. Refer to the SECTION 13-1.<br>2. The following adjustments should be completed before this adjustment is done.<br>1) CARRIER LEAKAGE ADJ. (9-16)<br>2) COMPONENT INPUT CARRIER BALANCE ADJ. (13-4) |                               |                   |
| Step 1.<br><br>1. SCOPE : COMPONENT Pb OUT<br>2. Adjust VR216 so that the burst portion of Pb signal is "flat" as shown. |                |  | <p>(Pb OUT)</p>   |                               |                   |
| Step 2.<br><br>1. SCOPE : COMPONENT Pr OUT<br>2. Adjust VR217 so that the burst portion of Pr signal is "flat" as shown. |                |  | <p>(Pr OUT)</p>   |                               |                   |

# 13-10. LINE INPUT Pr/Pb LEVEL ADJUSTMENT (FINE)

( W4 DEC & CTCM )

| TEST POINT   | MODE           | TAPE USED                                  | M.EQ.        | INPUT SIGNAL                     | ADJUSTMENT                           |
|--|----------------|--|--------------|----------------------------------|--------------------------------------|
| COMPONENT<br>Pb/Pr OUT<br>(W/75ohm<br>Termination) | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE | LINE INPUT<br>100%<br>COLOUR BAR | VR213 (PB LEV 1)<br>VR215 (PR LEV 1) |
|  |                | ALIGNMENT<br><input type="checkbox"/> TAPE |              |                                  |                                      |

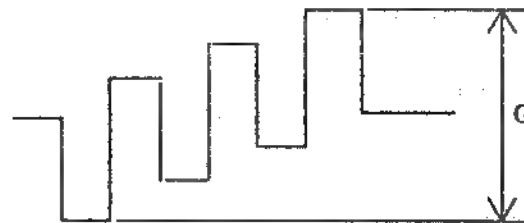
## ADJUSTMENT PROCEDURE & SPECIFICATION

### MACHINE CONDITION

1. Refer to the SECTION 13-1.
2. The following adjustments should be completed before this adjustment is done.
  - 1) COMPONENT Pb LEVEL ADJ. (9-9)
  - 2) COMPONENT Pr LEVEL ADJ. (9-11)
  - 3) COMPONENT INPUT Pb LEVEL ADJ. (13-7)

### Step 1.

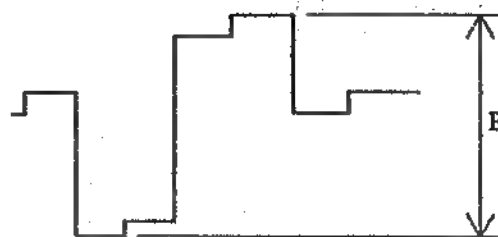
1. SCOPE : COMPONENT Pb OUT
2. Adjust VR213 so that the Pb level (G) is  $0.7 \pm 0.016V_{p-p}$  as shown.



$$G = 0.7 \pm 0.016V_{p-p}$$

### Step 2.

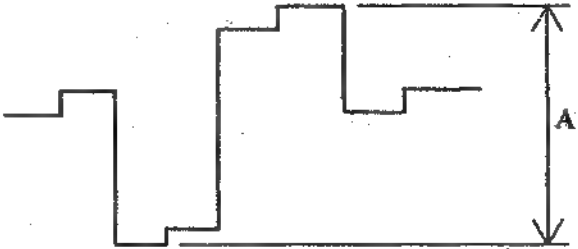
1. SCOPE : COMPONENT Pr OUT
2. Adjust VR215 so that the Pr level (E) is  $0.7 \pm 0.016V_{p-p}$  as shown.



$$E = 0.7 \pm 0.016V_{p-p}$$



# 13-11. Y/C INPUT Pr LEVEL ADJUSTMENT (FINE)

(W4 DEC & CTCM)

| TEST POINT   | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                | ADJUSTMENT    |
|--|----------------|-----------|--|-----------------------------|---------------|
| COMPONENT<br>Pr OUT<br>(w/75ohm<br>Termination)  | E-E<br>(EJECT) | -----     | OSCILLOSCOPE   | YC IN<br>100%<br>COLOUR BAR | VR165 (C LEV) |
| MACHINE CONDITION  |                |           | 1. Refer to the SECTION 13-1.<br>2. VIDEO INPUT SELECT : YC                        |                             |               |
| Step 1.<br><br>1. Adjust VR165 so that the Pr level (A)<br>is $0.7 \pm 0.016V_{p-p}$ as shown. |                |           |  |                             |               |

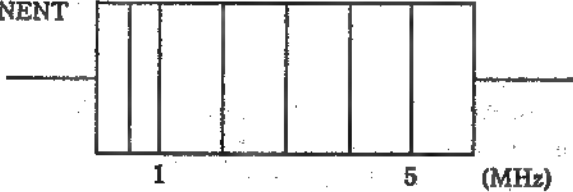
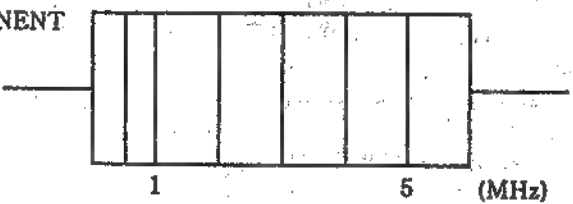
# 13-12. LINE INPUT Y FREQUENCY RESPONSE ADJUSTMENT

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED                                  | M. EQ.  | INPUT SIGNAL  | ADJUSTMENT     |
|---|----------------|--|---|---|----------------|
| COMPONENT<br>Y OUT<br>(w/75ohm<br>Termination)  | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE<br>OR<br>WAVEFORM<br>MONITOR   | Step 1.<br>COMPONENT<br>60%<br>H. SWEEP<br>(NO BURST) | VC141 (Y FREQ) |
|   |                | ALIGNMENT<br><input type="checkbox"/> TAPE |   | Step 2.<br>LINE IN<br>60%<br>H. SWEEP<br>(NO BURST)   |                |
| ADJUSTMENT PROCEDURE & SPECIFICATION  |                |  |   |   |                |
| MACHINE CONDITION   |                |  | 1. Refer to the SECTION 13-1.<br>2. The following adjustments should be completed before this adjustment is done.<br>1) Y PLAYBACK FREQUENCY RESPONSE ADJ. (7-39)<br>2) Y OUTPUT FREQUENCY RESPONSE ADJ. (9-24)   |   |                |
| Step 1.<br><br>1. INPUT POINT : COMPONENT IN<br>2. VIDEO INPUT SELECT : COMPONENT<br>3. Check the frequency response<br>0.5MHz : 5MHz (0.5MHz = 100%<br>: Reference) and notate it. |                |  | <div>COMPONENT<br/>Y OUT</div>  <div>0.5MHz = 100% (Reference)<br/>5.0MHz = A%</div>  |   |                |
| Step 2.<br><br>1. INPUT POINT : LINE IN<br>2. VIDEO INPUT SELECT : LINE<br>3. Adjust VC141 so that the frequency response is as shown.  |                |  | <div>COMPONENT<br/>Y OUT</div>  <div>0.5MHz = 100% (Reference)<br/>5.0MHz = A% ± 2%</div> <div>Note : A is the frequency response at 5.0MHz<br/>of the COMPONENT input.</div> |   |                |

# 13-13. YC INPUT Y FREQUENCY RESPONSE CONFIRMATION

( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED                                  | M.EQ.   | INPUT SIGNAL   | ADJUSTMENT |
|---|----------------|--|---|--|------------|
| COMPONENT<br>Y OUT<br>(w/75ohm<br>Termination)  | E-E<br>(EJECT) | BLANK<br><input type="checkbox"/> TAPE     | OSCILLOSCOPE<br>OR<br>WAVEFORM<br>MONITOR   | Step 1.<br>COMPONENT<br>60%<br>H.SWEEP<br>(NO BURST) | -----      |
|   |                | ALIGNMENT<br><input type="checkbox"/> TAPE |   | Step 2.<br>YC IN<br>60%<br>H.SWEEP<br>(NO BURST)     |            |
| ADJUSTMENT PROCEDURE & SPECIFICATION  |                |  |   |  |            |
| MACHINE CONDITION   |                |  | 1. Refer to the SECTION 13-1.<br>2. The following adjustments should be completed before this CONFIRMATION is done.<br>1) Y PLAYBACK FREQUENCY RESPONSE ADJ. (7-39)<br>2) Y OUTPUT FREQUENCY RESPONSE ADJ. (9-24)<br>3) LINE INPUT Y FREQUENCY RESPONSE ADJ. (13-12)  |  |            |
| Step 1.<br><br>1. INPUT POINT : COMPONENT IN<br>2. VIDEO INPUT SELECT : COMPONENT<br>3. Check the frequency response<br>0.5MHz : 5MHz (0.5MHz = 100%<br>: Reference) and notate it. |                |  | <div> <div>COMPONENT<br/>Y OUT</div>  <div>           0.5MHz = 100% (Reference)<br/>           5.0MHz = A%         </div> </div>  |  |            |
| Step 2.<br><br>1. INPUT POINT : YC IN<br>2. VIDEO INPUT SELECT : YC<br>3. Confirm that the frequency response is as shown.  |                |  | <div> <div>COMPONENT<br/>Y OUT</div>  <div>           0.5MHz = 100% (Reference)<br/>           5.0MHz = A% +5/-10%<br/>           Note : A is the frequency response at 5.0MHz<br/>                 of the COMPONENT input.         </div> </div> |  |            |



# 13-14(A). COMPONENT INPUT Y/C TIMING ADJUSTMENT (BY USING WAVEFORM MONITOR) (W4 DEC & CTCM)

| TEST POINT                             | MODE           | TAPE USED           | M.EQ.               | INPUT SIGNAL                           | ADJUSTMENT       |
|--|----------------|---------------------|---------------------|--|------------------|
| COMPONENT<br>Y OUT<br>Pb OUT<br>Pr OUT | SELF<br>REC/PB | BLANK<br>■ TAPE     | WAVEFORM<br>MONITOR | COMPONENT<br>PULSE & BAR<br>(MOD. 20T) | VC501 (PR TMG 2) |
|  |                | ALIGNMENT<br>□ TAPE |                     |  | VC502 (PB TMG 2) |

## ADJUSTMENT PROCEDURE & SPECIFICATION

### MACHINE CONDITION

1. Refer to the SECTION 13-1.
2. VIDEO INPUT SELECT : COMPONENT
3. COMPONENT Y/C TIMING ADJ. (9-18) should be completed before this adjustment is done.

### Step 1.

#### 1. WAVEFORM MONITOR CONDITION

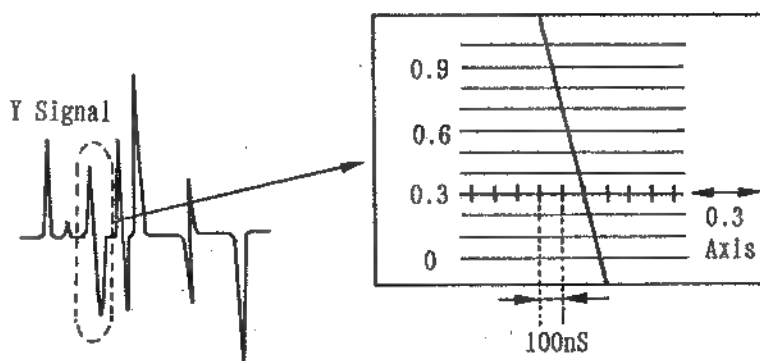
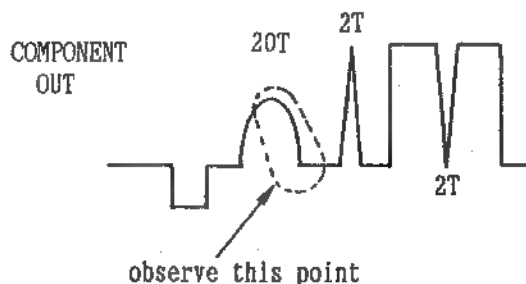
RESPONSE : DIFFD STEP mode  
VOLTS FULL SCALE : MAX (UNCAL)  
DISPLAY :  $\times 1$  (5)  
MAGNIFIER :  $\times 50$  (0.1)  
TRIGGER : VIDEO OUT OF VTR

### Step 2.

#### Note:

The COMPONENT OUTPUT CABLE LENGTH should be all the same length.

1. Make a recording, then playback the just recorded portion.
2. WFM MONITOR  
CHA : COMPONENT Y OUT  
CHB : COMPONENT Pr OUT  
EXT SYNC CH1 : VIDEO OUT  
CH2 : VIDEO OUT
3. Observe the falling portion of the modulated 20T pulse signal.
4. Adjust the vertical and horizontal position of the WFM Monitor so that the centre line of falling edge is set to 0.3 axis as shown.
5. Change the Input Select of the WFM Switch from the Ach (COMPONENT Y OUT) to the Bch (COMPONENT Pr OUT).
6. Measure the difference between the Y and Pr signal timing.
7. If it is not within  $\pm 20\text{ns}$ , adjust VC501.
8. WFM MONITOR  
CHA : COMPONENT Y OUT  
CHB : COMPONENT Pb OUT
9. Measure the difference between the Y and Pb signal timing.
10. If it is not within  $\pm 20\text{ns}$ , adjust VC502 and repeat #1 thru #10 of Step 2.



SPECIFICATION : Y/C TIMING =  $\pm 20\text{ns}$

**13-14(B). COMPONENT INPUT Y/C TIMING ADJUSTMENT**  
**(BY USING OSCILLOSCOPE)** (W4 DEC & CTCM)

| TEST POINT                             | MODE           | TAPE USED           | M. EQ.       | INPUT SIGNAL                    | ADJUSTMENT       |
|--|----------------|---------------------|--------------|---------------------------------|------------------|
| COMPONENT<br>Y OUT<br>Pb OUT<br>Pr OUT | SELF<br>REC/PB | BLANK<br>■ TAPE     | OSCILLOSCOPE | COMPONENT<br>100%<br>COLOUR BAR | VC501 (PR TMG 2) |
|  |                | ALIGNMENT<br>□ TAPE |              |                                 | VC502 (PB TMG 2) |

**ADJUSTMENT PROCEDURE & SPECIFICATION**

**MACHINE CONDITION**

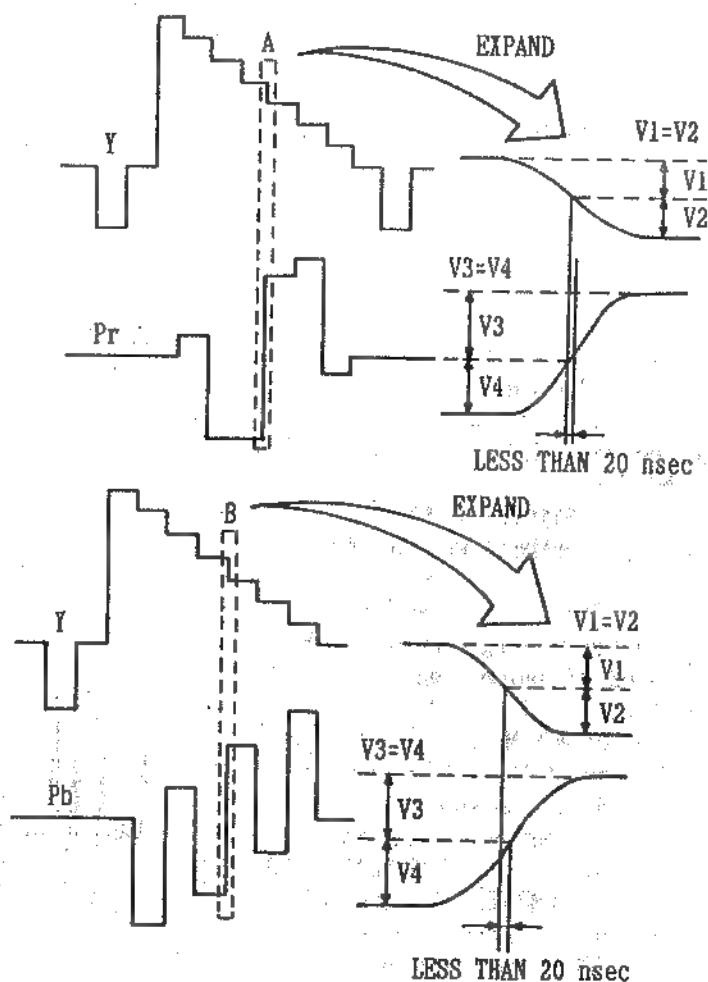
1. Refer to the SECTION 13-1.
2. VIDEO INPUT SELECT : COMPONENT
3. COMPONENT Y/C TIMING ADJ. (9-18) should be completed before this adjustment is done.

**Step 1.**

**Note:**

COMPONENT OUTPUT CABLE LENGTH should be the same length.

1. Make a recording, then playback the just recorded portion.
2. SCOPE CH1 : COMPONENT Y OUT  
SCOPE CH2 : COMPONENT Pr OUT
3. Confirm that the Y/Pr Timing of "A" portion is less than 20ns as shown.
4. If it is not within specification, adjust VC501 so that the Y/Pr Timing of "A" portion is less than 20ns.
5. SCOPE CH1 : COMPONENT Y OUT  
SCOPE CH2 : COMPONENT Pb OUT
6. Confirm that the Y/Pb Timing of "B" portion is less than 20ns as shown.
7. If it is not within specification, adjust VC502 so that the Y/Pb Timing of "B" portion is less than 20ns and repeat #1 thru #7.



# 13-15(A). LINE INPUT Y/C TIMING ADJUSTMENT (BY USING WAVEFORM MONITOR) (W4 DEC & CTCM)

| TEST POINT                             | MODE           | TAPE USED           | M.EQ.               | INPUT SIGNAL                         | ADJUSTMENT       |
|--|----------------|---------------------|---------------------|--------------------------------------|------------------|
| COMPONENT<br>Y OUT<br>Pb OUT<br>Pr OUT | SELF<br>REC/PB | BLANK<br>■ TAPE     | WAVEFORM<br>MONITOR | LINE IN<br>PULSE & BAR<br>(MOD. 20T) | VR214 (PR TMG 1) |
|  |                | ALIGNMENT<br>□ TAPE |                     |                                      | VR212 (PB TMG 1) |

## ADJUSTMENT PROCEDURE & SPECIFICATION

### MACHINE CONDITION

1. Refer to the SECTION 13-1.
2. The following adjustments should be completed before this adjustment is done.
  - 1) COMPOSITE Y/C TIMING ADJ. (9-19)
  - 2) COMPONENT INPUT Y/C TIMING ADJ. (13-14)

### Step 1.

#### 1. WAVEFORM MONITOR CONDITION

RESPONSE : DIFFD STEP mode  
VOLTS FULL SCALE : MAX (UNCAL)  
DISPLAY :  $\times 1$  (5)  
MAGNIFIER :  $\times 50$  (0.1)  
TRIGGER : VIDEO OUT OF VTR

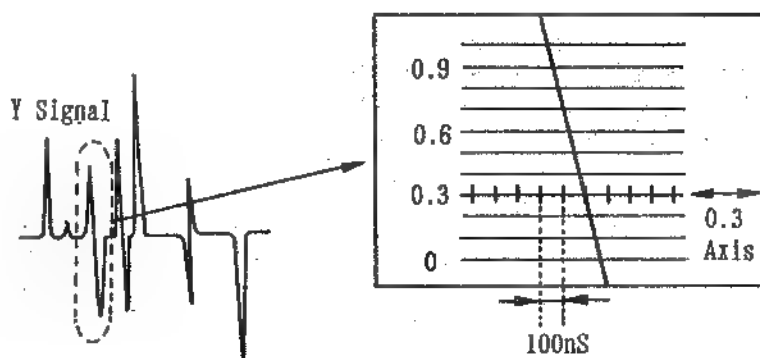
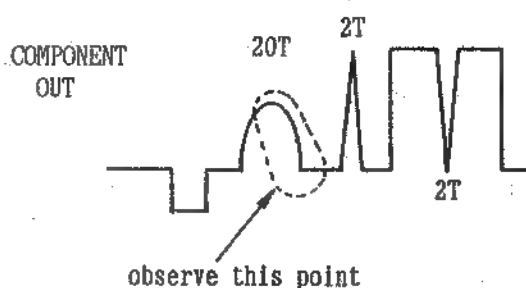
### Step 2.

#### Note:

COMPONENT OUTPUT CABLE LENGTH should be the same length.

1. Make a recording, then playback the just recorded portion.
2. WFM MONITOR

CHA : COMPONENT Y OUT  
CHB : COMPONENT Pr (Pb) OUT  
EXT SYNC CH A : VIDEO OUT  
CH B : VIDEO OUT
3. Observe the falling portion of the modulated 20T pulse signal.
4. Adjust the vertical and horizontal position of WFM Monitor so that the centre line of the falling edge is set to 0.3 axis as shown.
5. Change the Input Select of WFM Switch from the Ach (COMPONENT Y OUT) to the Bch (COMPONENT Pr (Pb) OUT).
6. Measure the difference between the Y and Pr (Pb) signal timing.
7. If it is not within  $\pm 20\text{ns}$ , adjust VR214 (Pr) and VR212 (Pb) and repeat #1 thru #7 of Step 2.



# 13-15(B). LINE INPUT Y/C TIMING ADJUSTMENT (BY USING OSCILLOSCOPE)

( W4 DEC & CTCM )

| TEST POINT                             | MODE           | TAPE USED           | M.EQ.        | INPUT SIGNAL          | ADJUSTMENT       |
|--|----------------|---------------------|--------------|-----------------------|------------------|
| COMPONENT<br>Y OUT<br>Pb OUT<br>Pr OUT | SELF<br>REC/PB | BLANK<br>■ TAPE     | OSCILLOSCOPE | LINE IN<br>COLOUR BAR | VR214 (PR TMG 1) |
|  |                | ALIGNMENT<br>□ TAPE |              |                       | VR212 (PB TMG 1) |

## ADJUSTMENT PROCEDURE & SPECIFICATION

### MACHINE CONDITION

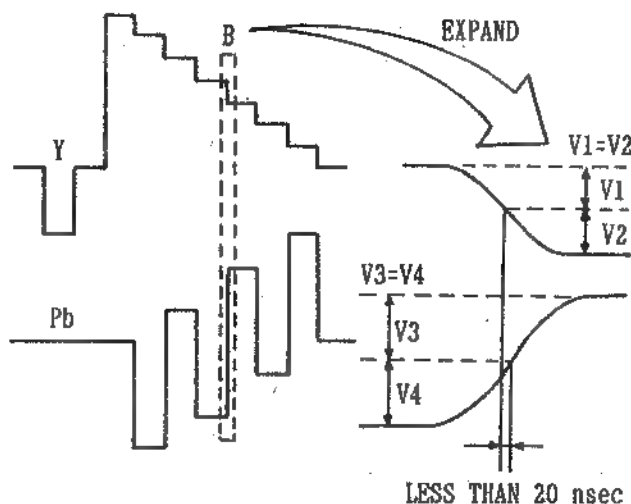
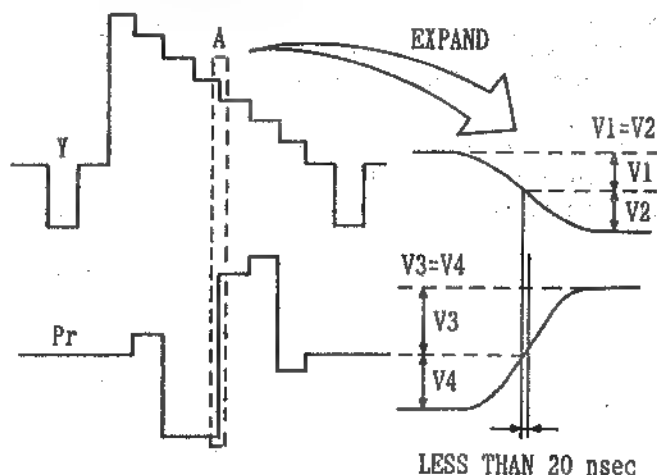
1. Refer to the SECTION 13-1.
2. The following adjustments should be completed before this adjustment is done.
  - 1) COMPOSITE Y/C TIMING ADJ. (9-19)
  - 2) COMPONENT INPUT Y/C TIMING ADJ. (13-14)

### Step 1.

#### Note:

COMPONENT OUTPUT CABLE LENGTH should be the same length.

1. Make a recording for a few minutes.
2. Playback the just recorded portion.
3. SCOPE CH1 : COMPONENT Y OUT  
SCOPE CH2 : COMPONENT Pr OUT
4. Confirm that the Y/Pr Timing of the "A" portion is less than 20ns as shown.
5. If it is not within specification, adjust VR214 (Pr) so that the Y/Pr Timing of the "A" portion is less than 20ns.
6. SCOPE CH1 : COMPONENT Y OUT  
SCOPE CH2 : COMPONENT Pb OUT
7. Confirm that the Y/Pb Timing of the "B" portion is less than 20ns as shown.
8. If it is not within specification, adjust VR212 (Pb) so that the Y/Pb Timing of "B" portion is less than 20ns and repeat #1 thru #8.

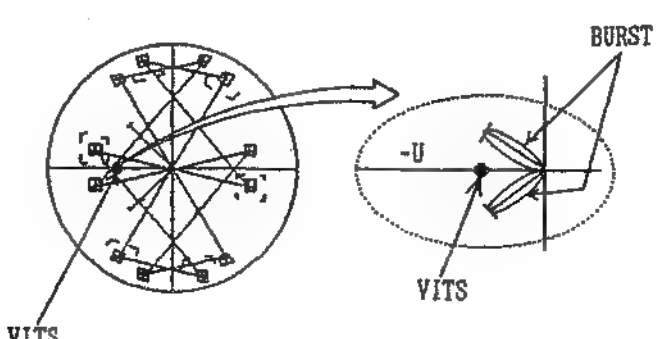


# 13-16. 13.5MHz PLL ADJUSTMENT (FINE)

( W4 DEC & CTCM )

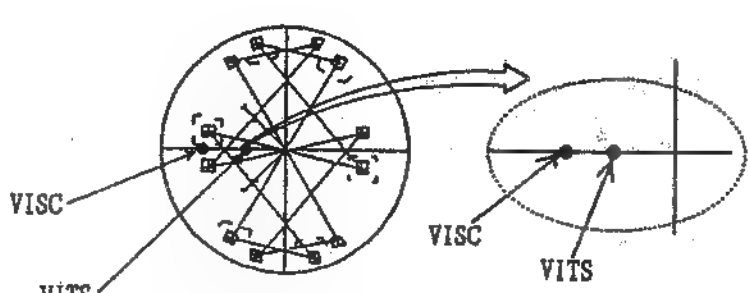
| TEST POINT  | MODE           | TAPE USED           | M.EQ.       | INPUT SIGNAL   | ADJUSTMENT           |
|---|----------------|---------------------|-------------|--|----------------------|
| VIDEO 1 OUT<br>(AU-W35H)<br>(W/75ohm<br>Termination)    | SELF<br>REC/PB | BLANK<br>■ TAPE     | VECTORSCOPE | LINE IN<br>100%<br>COLOUR BAR<br>WITH<br>VITS SIGNAL | VR701 (SYNC $\phi$ ) |
| VIDEO 2 OUT<br>(AU-66H/65H)<br>(W/75ohm<br>Termination) |                | ALIGNMENT<br>□ TAPE |             |  |                      |

## ADJUSTMENT PROCEDURE & SPECIFICATION

| MACHINE CONDITION   | 1. Refer to the SECTION 13-1.  |
|---|--|
| <p>Step 1.</p> <ol style="list-style-type: none"> <li>Place the unit in the record mode.</li> <li>Then playback the just recorded portion.</li> <li>Confirm that the VITS signal phase is the same as the -U axis as shown (<math>0^\circ \pm 2^\circ</math>).</li> <li>If it is not within specification, fine adjust VR701 so that the phase difference is <math>0^\circ \pm 2^\circ</math>.</li> </ol> |  <p>SPECIFICATION : Phase difference = <math>0^\circ \pm 2^\circ</math> (degrees)</p> |

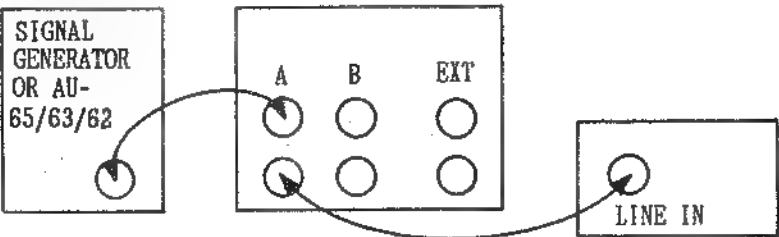
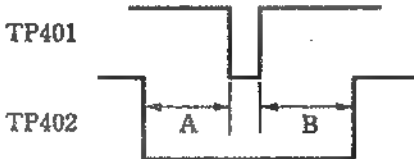
# 13-17. VISC PHASE ADJUSTMENT

( W4 DEC & CTOM )

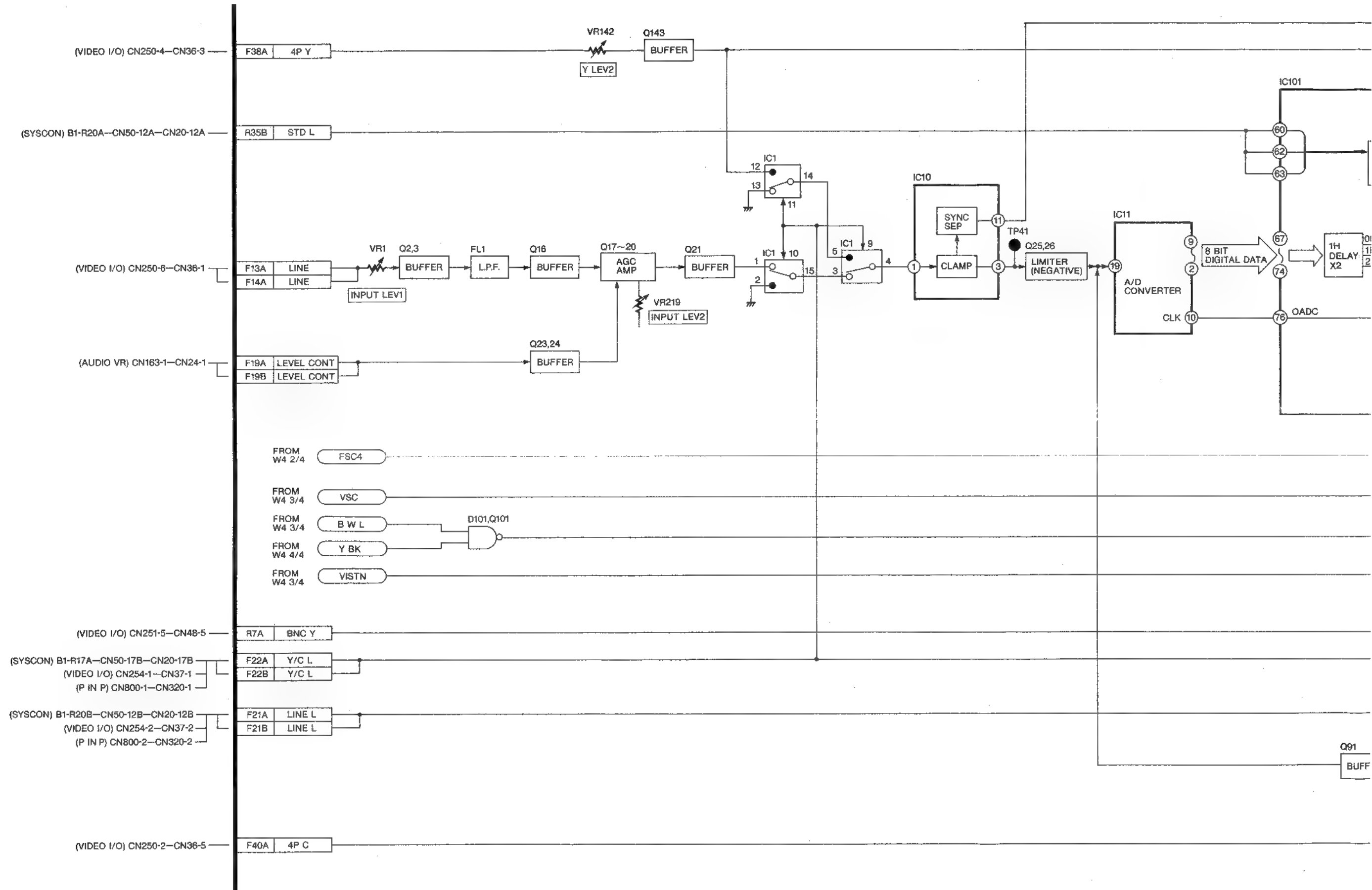
| TEST POINT  | MODE           | TAPE USED   | M. EQ.   | INPUT SIGNAL                                      | ADJUSTMENT      |
|---|----------------|---|--|---|-----------------|
| VIDEO 1 OUT<br>(AU-W35H)<br>(w/75ohm Termination)<br>VIDEO 2 OUT<br>(AU-66H/65H)<br>(w/75ohm Termination)   | E-E<br>(EJECT) | <div>BLANK<br/><input type="checkbox"/> TAPE</div> <div>ALIGNMENT<br/><input type="checkbox"/> TAPE</div> | VECTORSCOPE  | LINE IN<br>100%<br>COLOUR BAR<br>WITH VITS SIGNAL | VR81 (VISC PHA) |
| ADJUSTMENT PROCEDURE & SPECIFICATION  |                |   |  |   |                 |
| MACHINE CONDITION   |                |   | 1. Refer to the SECTION 13-1.<br>2. STD/NSTD SELECT : STD<br>(Set-up Menu No.1011 → 00 Front Switch)   |   |                 |
| Step 1.<br><br>1. SW7 (on W1) : OFF<br>2. Confirm that the phase of the VISC signal and the VITS signal are equal.<br>3. If it is not within specification, adjust VR81 so that the phase of the VISC signal and the VITS signal are the same.<br>4. After this adjustment, set SW7 (on W1) to the "ON" position. |                |   |  <p>SPECIFICATION:<br/>PHASE DIFFERENCE = 0° ± 2° (degrees)</p> |   |                 |

# 13-18. INPUT SCH ADJUSTMENT

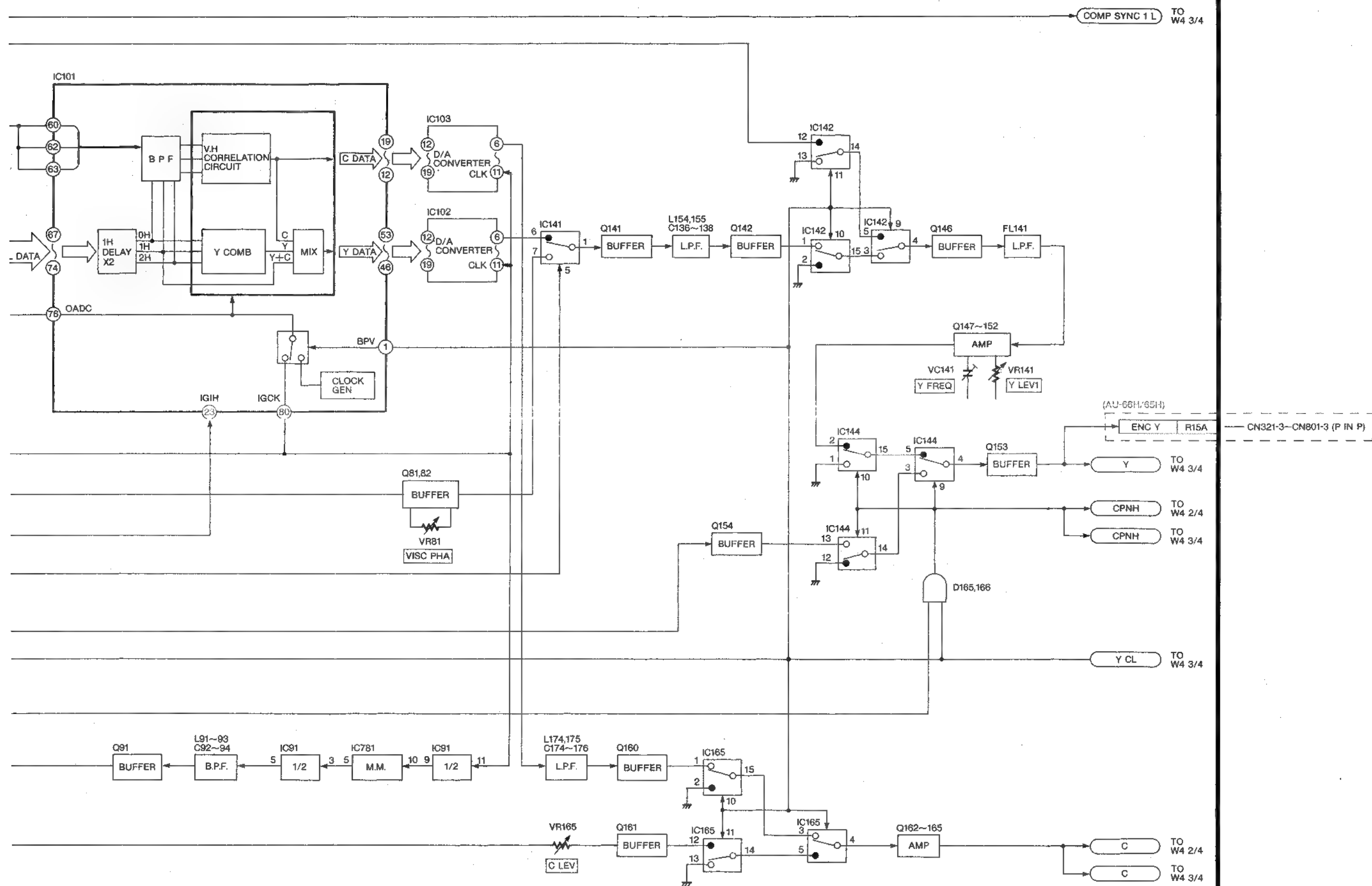
( W4 DEC & CTCM )

| TEST POINT  | MODE           | TAPE USED | M.EQ.  | INPUT SIGNAL                             | ADJUSTMENT    |
|---|----------------|-----------|--|--|---------------|
| TP401<br>TP402  | E-E<br>(EJECT) | -----     | SCH METER<br>OSCILLOSCOPE  | LINE IN<br>COMPOSITE SIGNAL<br>(SCH 0° ) | VR401 (SCH -) |
| <p>Step 1.</p> <p>CONNECTION METHOD</p>   |                |           | <p>SCH METER</p>                                 |  |               |
| <p>Step 2.</p> <ol style="list-style-type: none"> <li>1. SCH METER : SCH MODE</li> <li>2. Adjust SIGNAL GEN or another MII VTR so that the SCH phase becomes <math>\pm 0^\circ</math>.</li> <li>3. Connect the oscilloscope to TP401 and TP402.</li> <li>4. Adjust VR401 so that the (A) equal (B) as shown in figure.</li> </ol> |                |           |  <p><math>A = B \pm 0.5 \text{ msec}</math></p> |  |               |

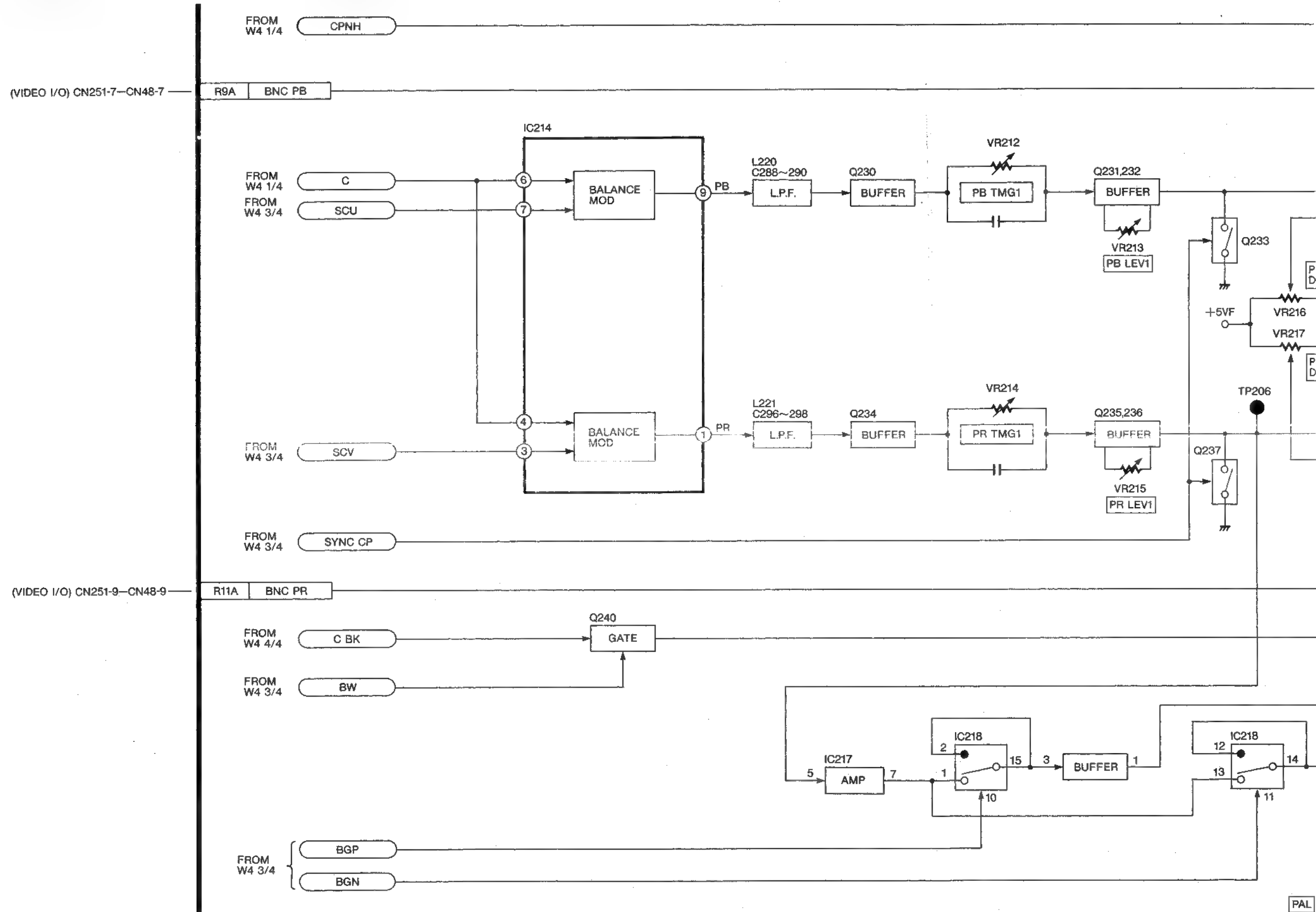
# W4 (DEC & CTCM) BLOCK DIAGRAM (1/4)

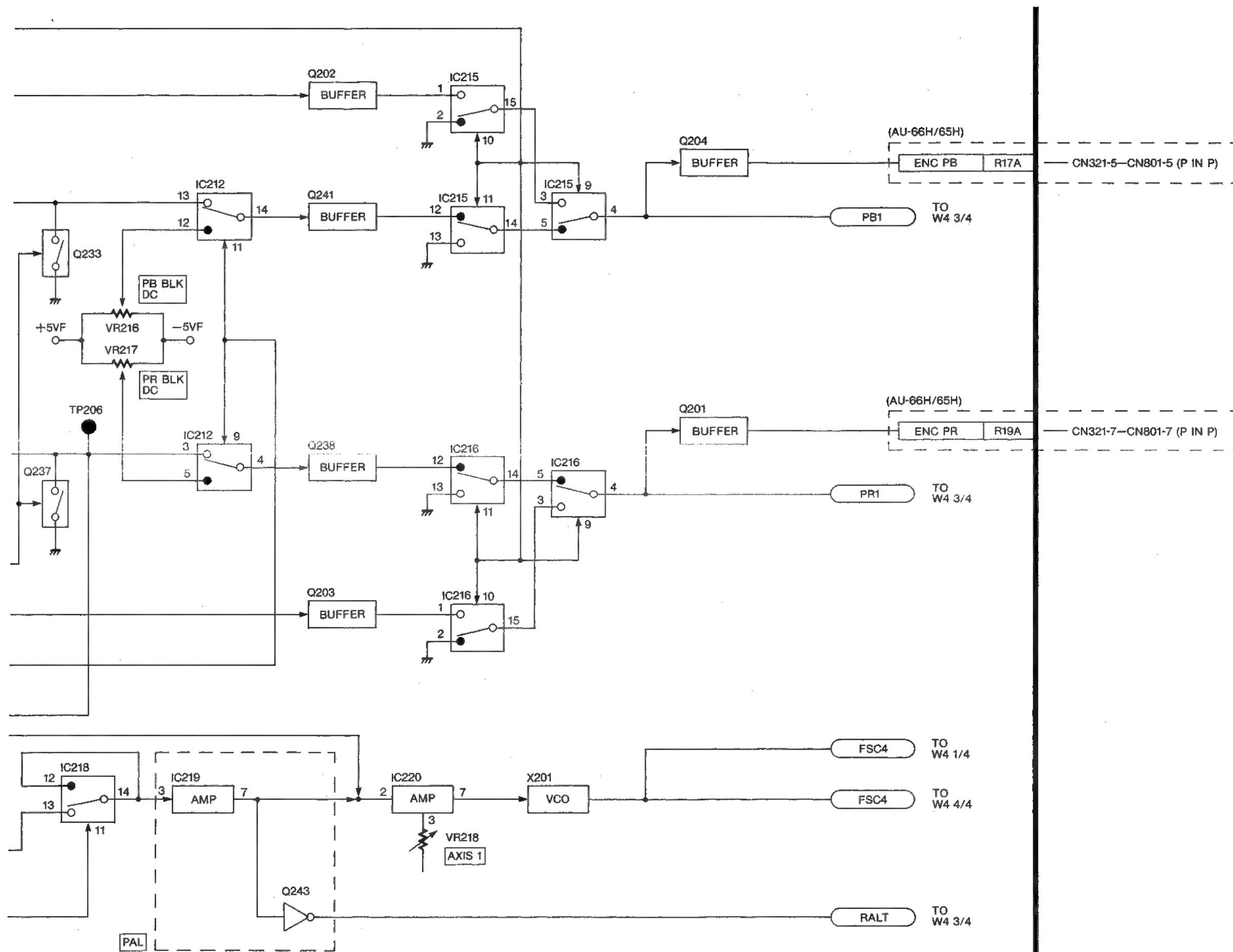




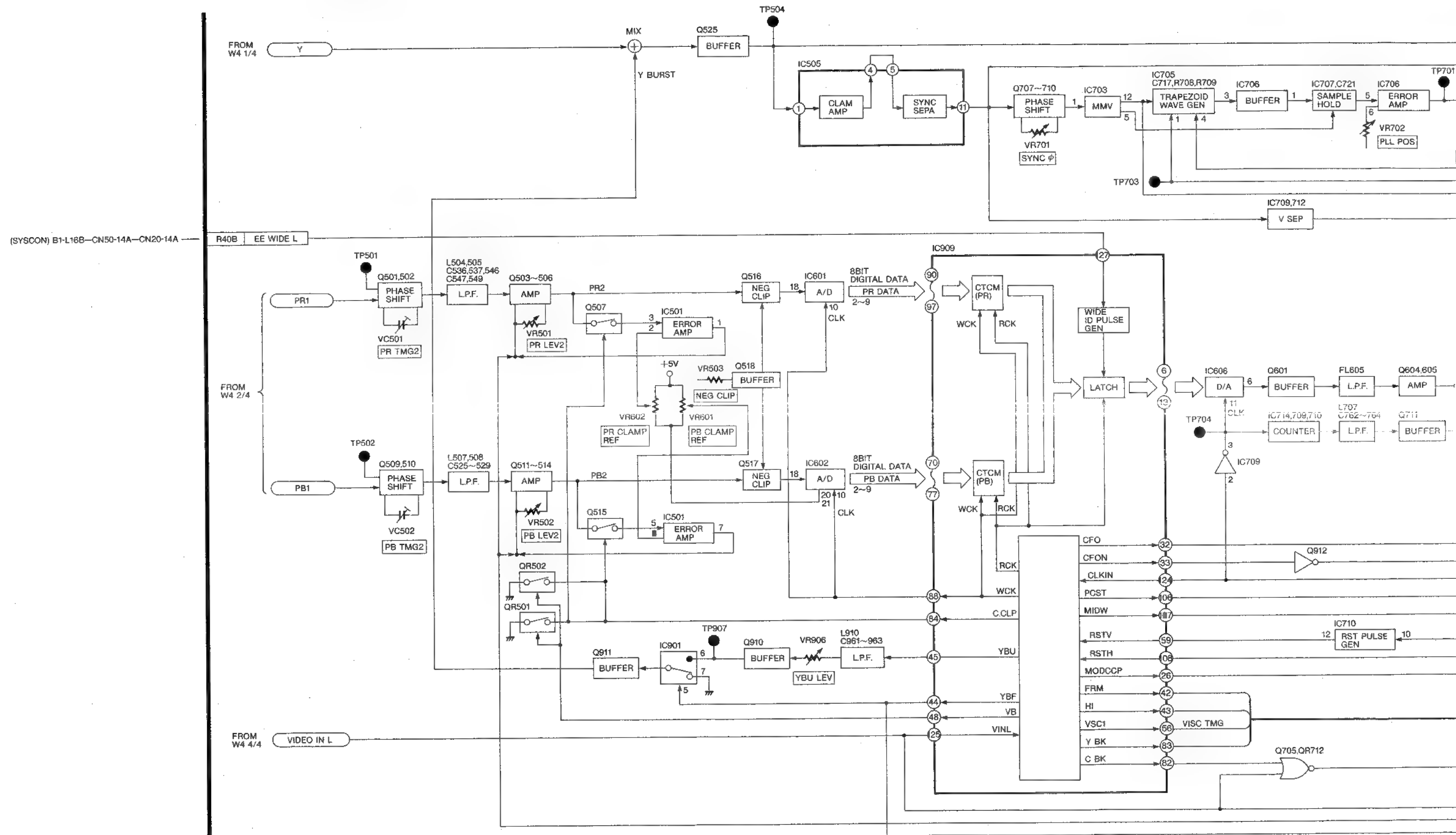


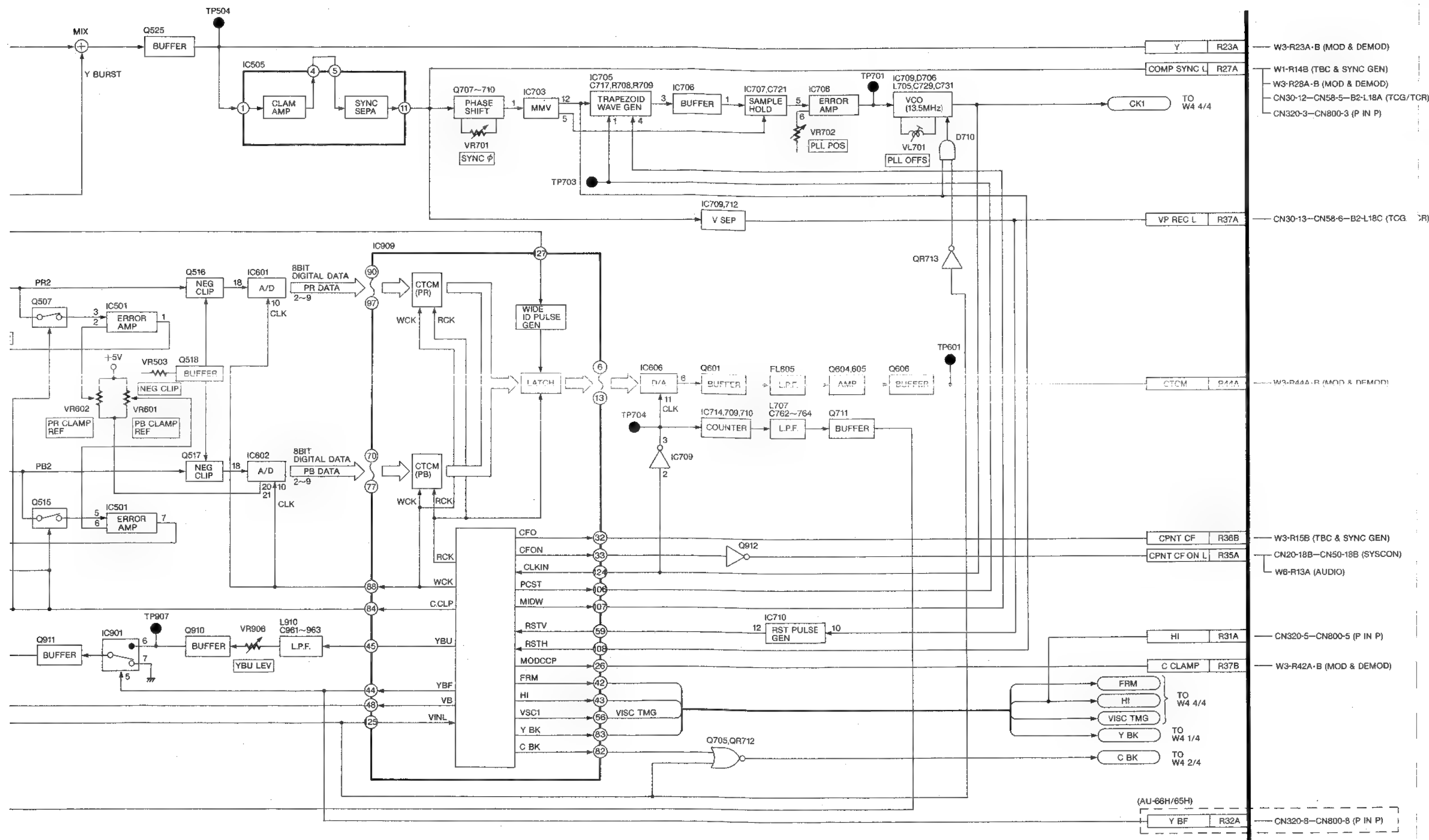
# W4 (DEC & CTCM) BLOCK DIAGRAM (2/4)



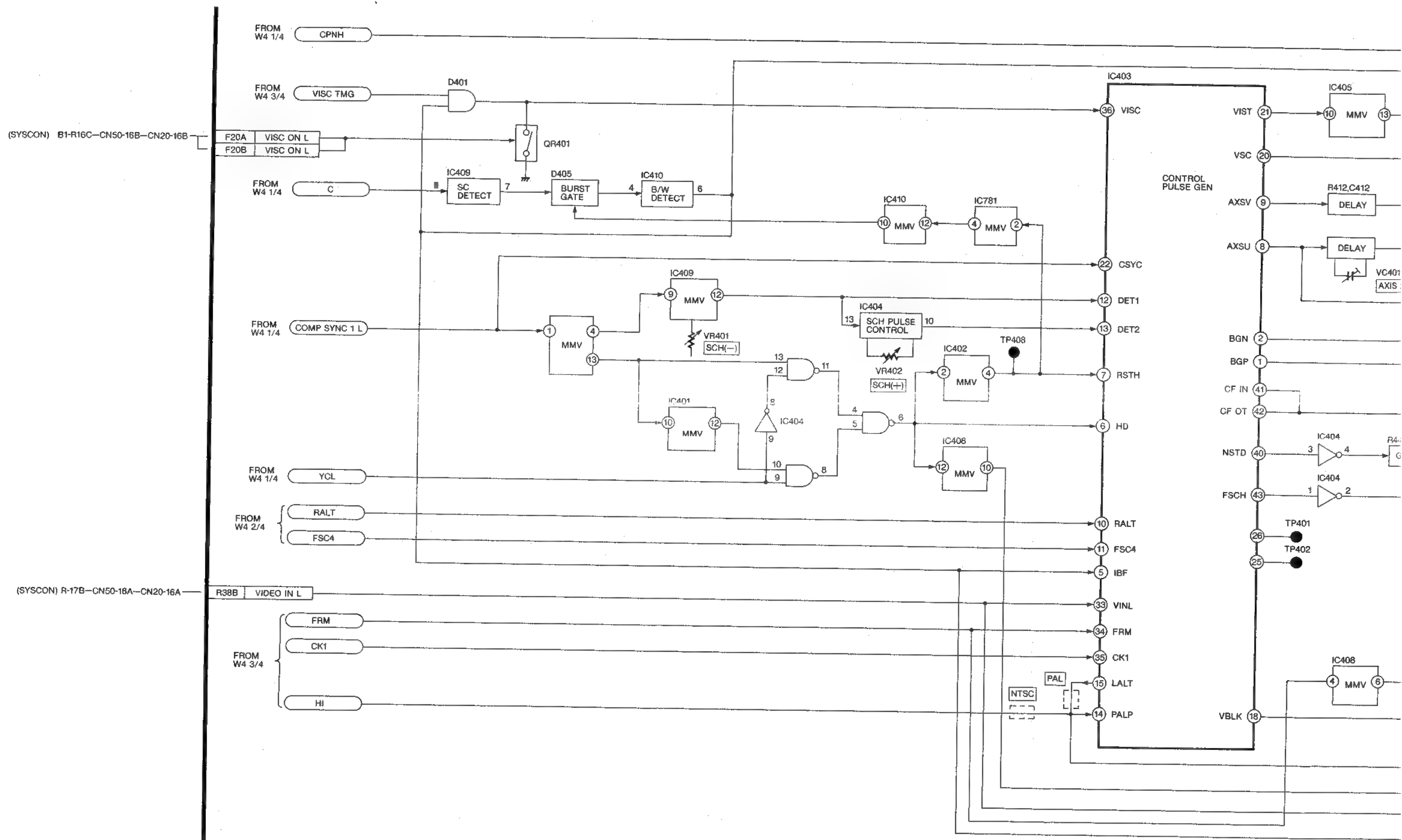


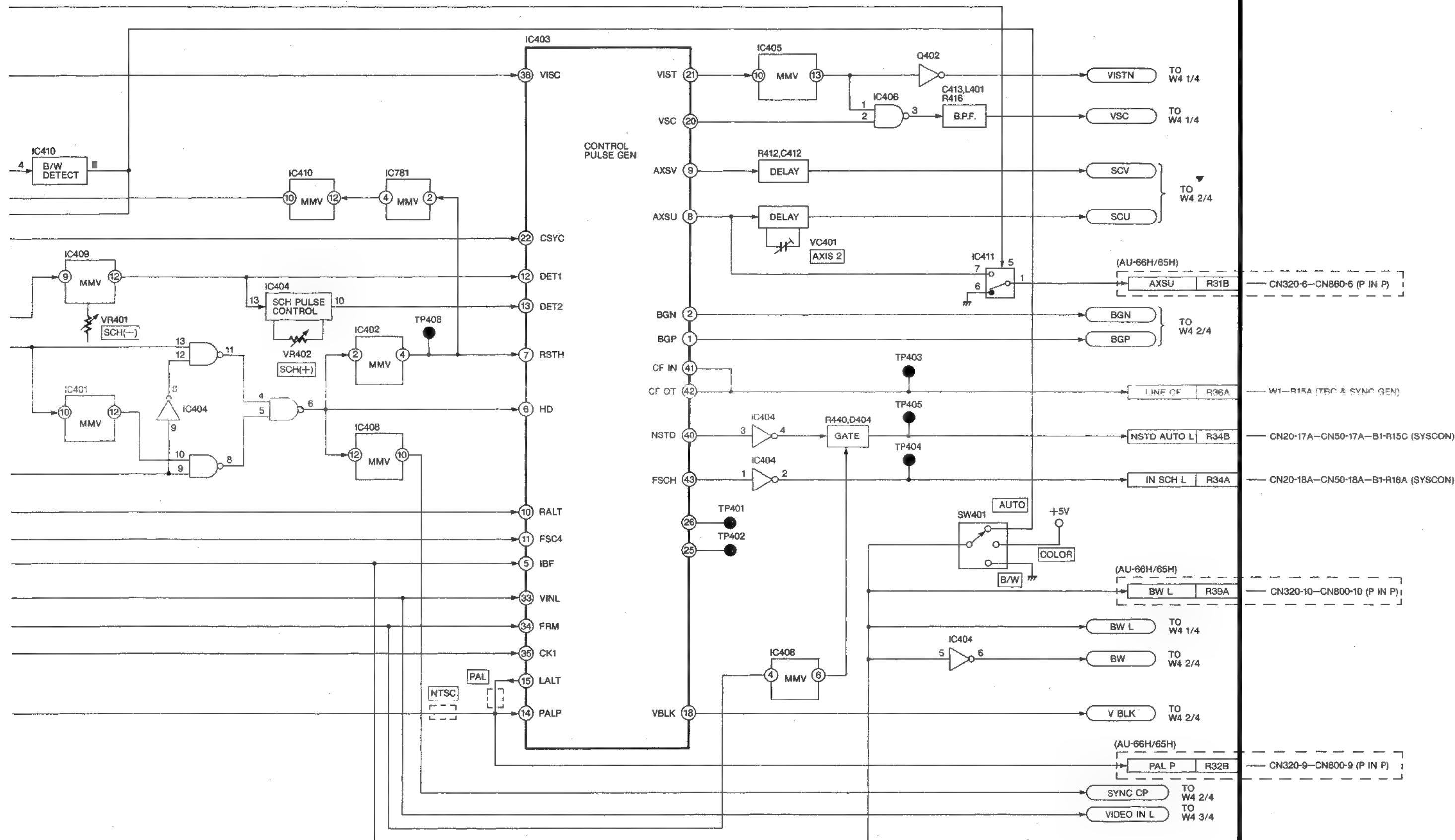
# W4 (DEC & CTCM) BLOCK DIAGRAM (3/4)



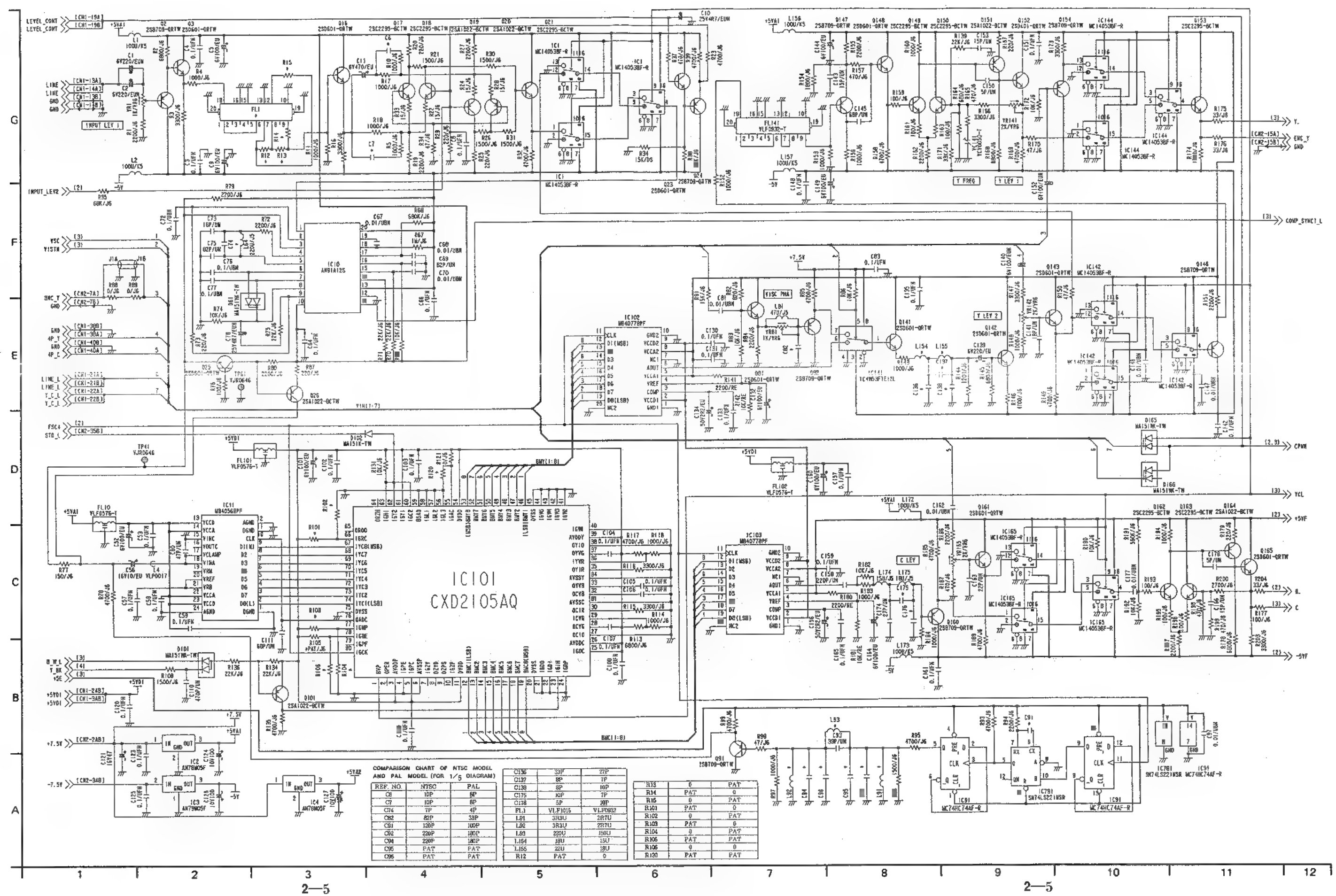


### W4 (DEC & CTCM) BLOCK DIAGRAM (4/4)



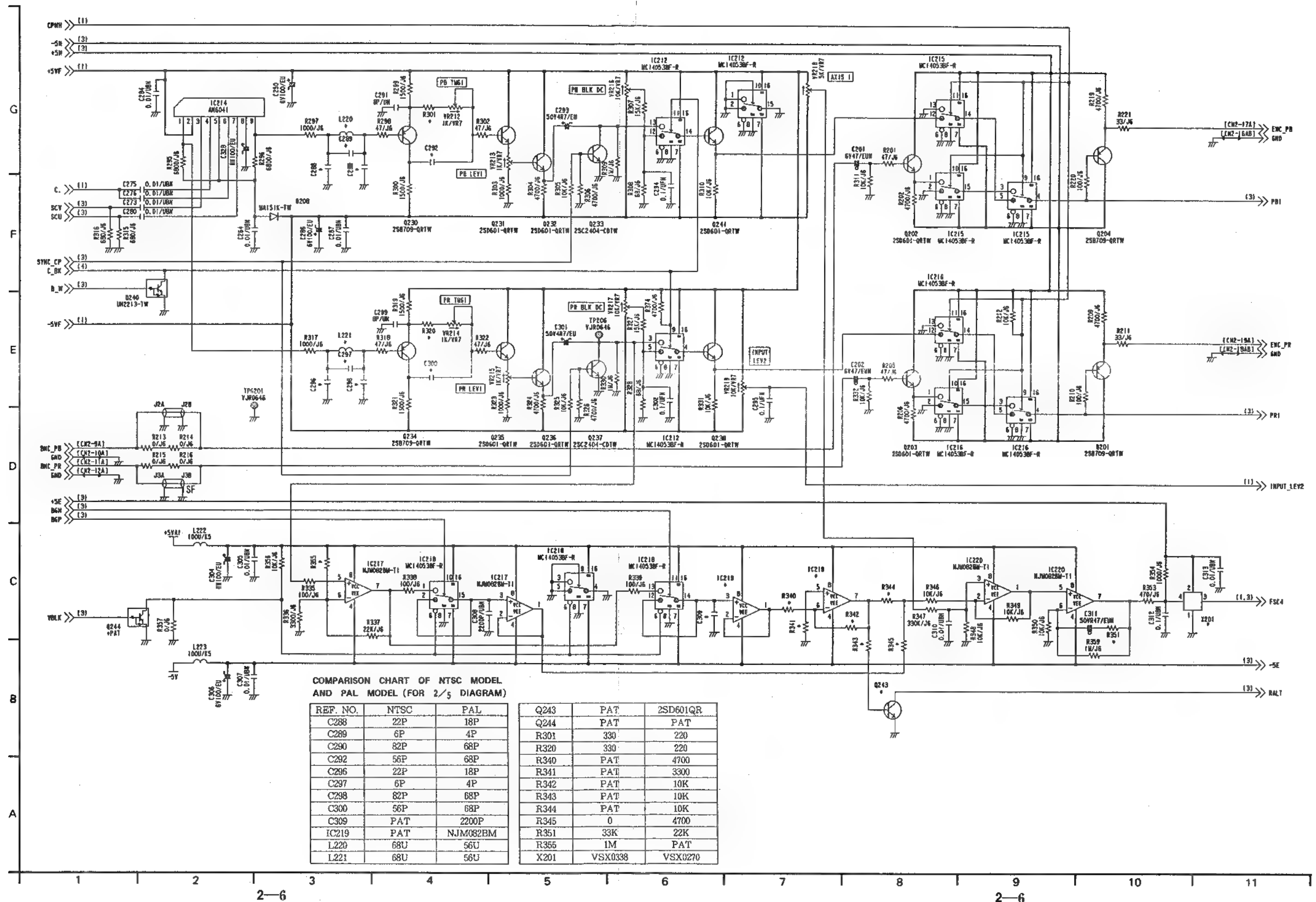


# W4 (DEC & CTCM) SCHEMATIC DIAGRAM (1/5)

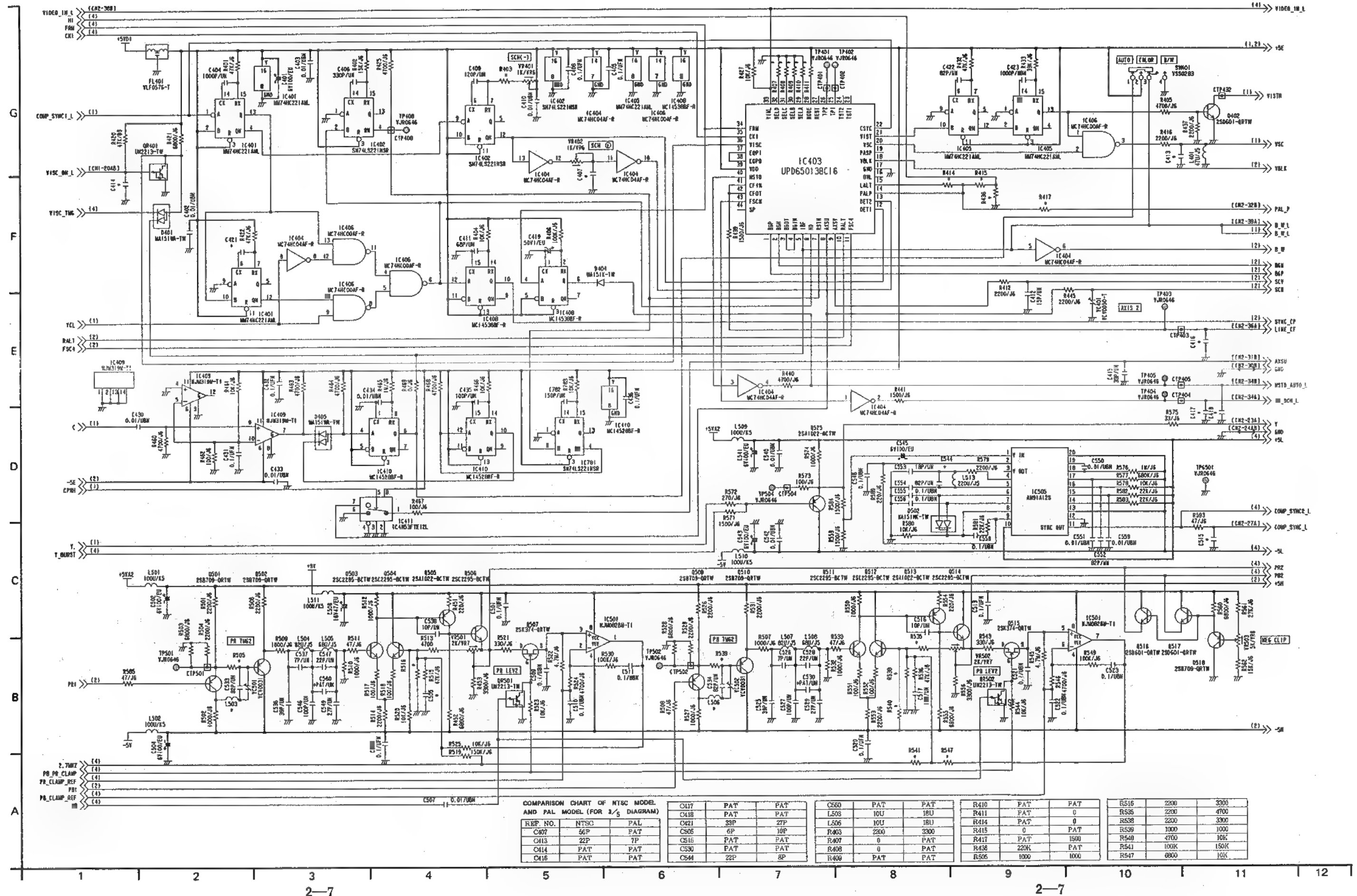




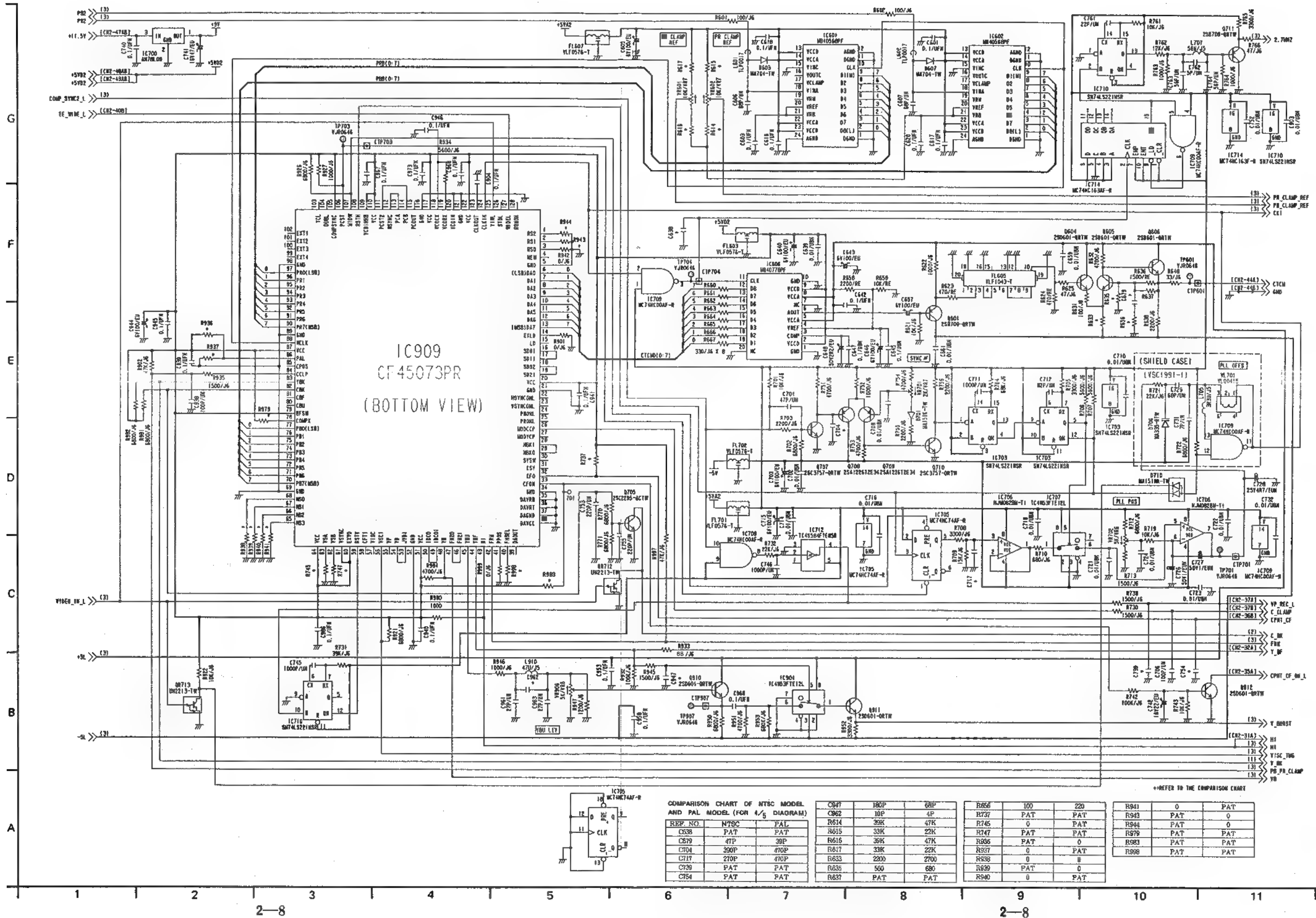
# W4 (DEC & CTCM) SCHEMATIC DIAGRAM (2/5)



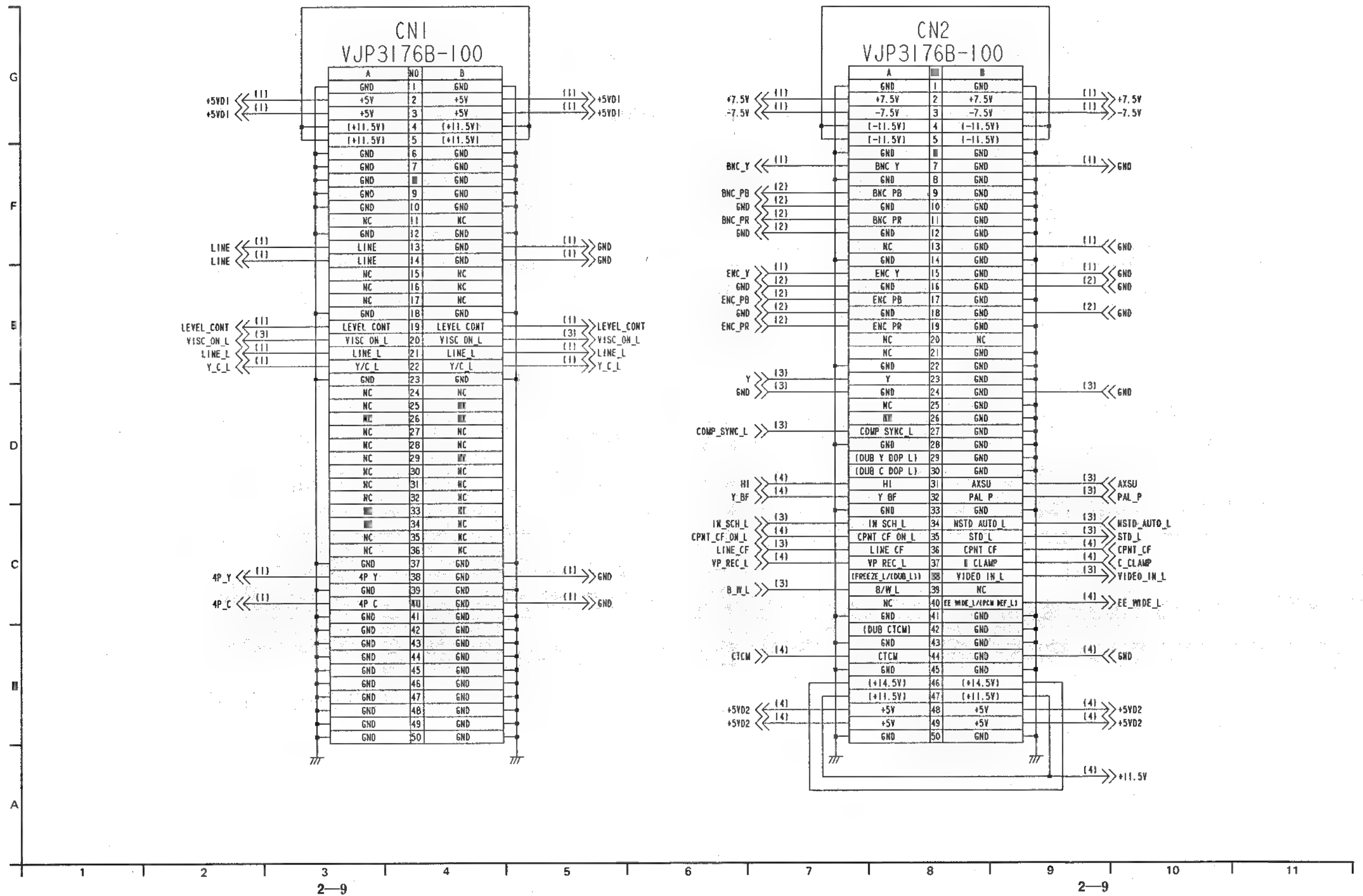
# W4 (DEC & CTCM) SCHEMATIC DIAGRAM (3/5)



# W4 (DEC & CTCM) SCHEMATIC DIAGRAM (4/5)

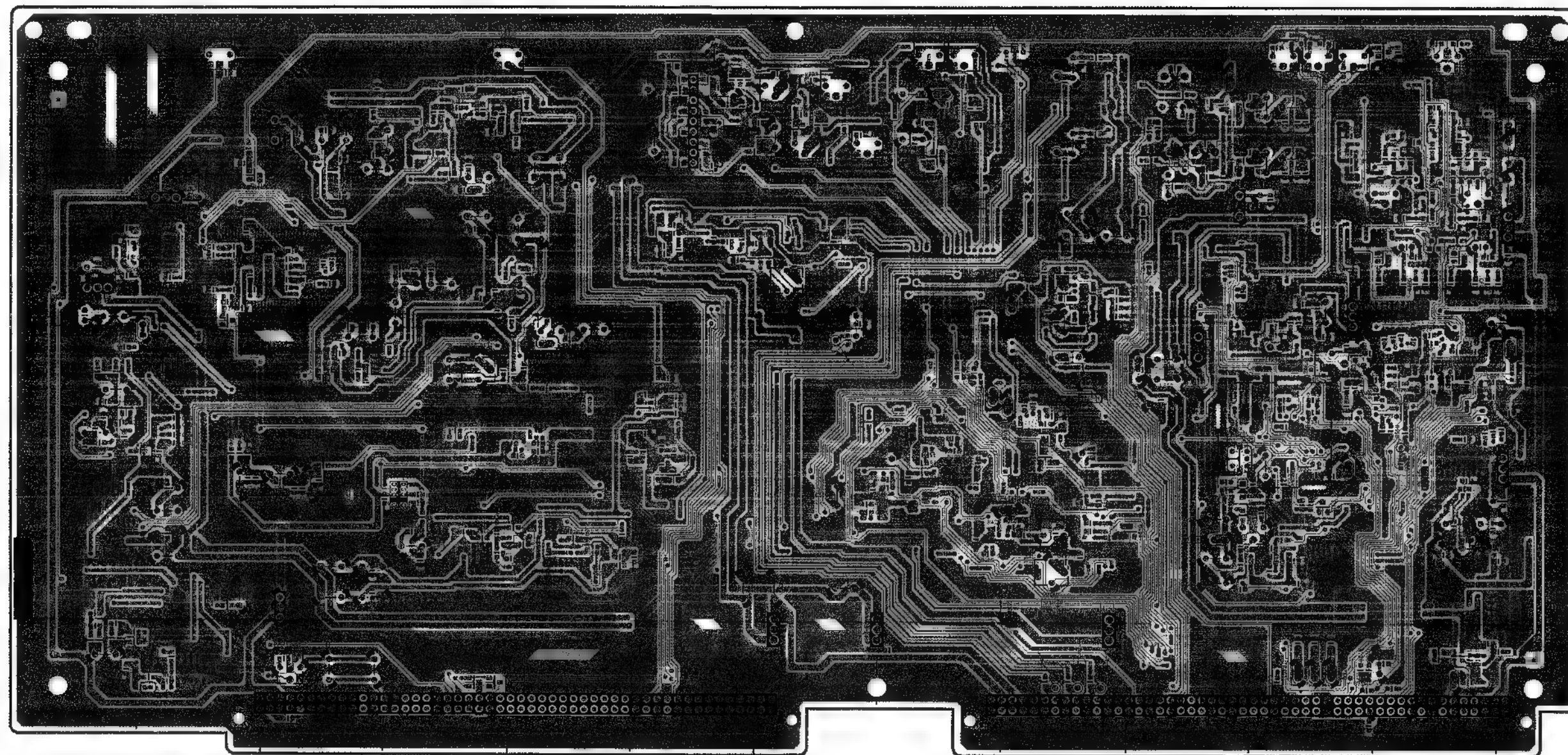
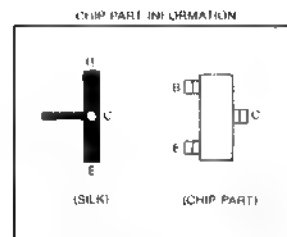


# W4 (DEC & CTCM) SCHEMATIC DIAGRAM (5/5)









(FOIL SIDE)



(B) (7) (D)



| Ref.No. | Part No.     | Part Name & Description                | Pcs | Remarks   | Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--|-----|-----------|---------|--------------|--------------------------|-----|---------|
|         | VEP831998    | P.C.BOARD W/COMPONENT<br>H4 DEC & CTOM | 1   | (RTL)-<R> | C158    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
|         |              |  |     |           | C159    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |  |     |           | C160    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
|         |              |  |     |           | C161    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |  |     |           | C162    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C163    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
|         |              |  |     |           | C164    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
|         |              |  |     |           | C165    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |  |     |           | C166    | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |         |
|         |              |  |     |           | C174    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
|         |              |  |     |           | C175    | ECUM1H0700CN | C.CAPACITOR CH 50V 7P    | 1   |         |
|         |              |  |     |           | C176    | ECUM1H1000CN | C.CAPACITOR CH 50V 10P   | 1   |         |
|         |              |  |     |           | C177    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C178    | ECUM1H0500CN | C.CAPACITOR CH 50V 5P    | 1   |         |
|         |              |  |     |           | C201,02 | ECEA0JN470S  | E.CAPACITOR 6.3V 47U     | 2   |         |
|         |              |  |     |           | C250    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
|         |              |  |     |           | C264    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C273    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C275,76 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |  |     |           | C280    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C284    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C286    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
|         |              |  |     |           | C287    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C288    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         |
|         |              |  |     |           | C289    | ECUM1H0400CN | C.CAPACITOR CH 50V 4P    | 1   |         |
|         |              |  |     |           | C290    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
|         |              |  |     |           | C291    | ECUM1H0800CN | C.CAPACITOR CH 50V 8P    | 1   |         |
|         |              |  |     |           | C292    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
|         |              |  |     |           | C293    | ECEA1H04R7   | E.CAPACITOR 50V 4.7U     | 1   |         |
|         |              |  |     |           | C294,95 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
|         |              |  |     |           | C296    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         |
|         |              |  |     |           | C297    | ECUM1H0400CN | C.CAPACITOR CH 50V 4P    | 1   |         |
|         |              |  |     |           | C298    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
|         |              |  |     |           | C299    | ECUM1H0800CN | C.CAPACITOR CH 50V 8P    | 1   |         |
|         |              |  |     |           | C300    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
|         |              |  |     |           | C301    | ECEA1H04R7   | E.CAPACITOR 50V 4.7U     | 1   |         |
|         |              |  |     |           | C302    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |  |     |           | C304    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
|         |              |  |     |           | C305    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C306    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
|         |              |  |     |           | C307    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C308,09 | ECUM1H103KBN | C.CAPACITOR CH 50V 2200P | 2   |         |
|         |              |  |     |           | C310    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C311    | ECEA1H04R7S  | E.CAPACITOR 50V 0.47U    | 1   |         |
|         |              |  |     |           | C312    | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |  |     |           | C313    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C328    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
|         |              |  |     |           | C401    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
|         |              |  |     |           | C402,03 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |  |     |           | C404    | ECUM1H102JCN | C.CAPACITOR CH 50V 1000P | 1   |         |
|         |              |  |     |           | C405    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |  |     |           | C406    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
|         |              |  |     |           | C408    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |  |     |           | C409    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
|         |              |  |     |           | C410    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C411    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
|         |              |  |     |           | C412    | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |         |
|         |              |  |     |           | C413    | ECUM1H0700CN | C.CAPACITOR CH 50V 7P    | 1   |         |
|         |              |  |     |           | C415    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
|         |              |  |     |           | C419    | ECEA1H0010   | E.CAPACITOR 50V 1U       | 1   |         |
|         |              |  |     |           | C421    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
|         |              |  |     |           | C422    | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
|         |              |  |     |           | C423    | ECUM1H102KBN | C.CAPACITOR CH 50V 1000P | 1   |         |
|         |              |  |     |           | C430    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |  |     |           | C431,32 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
|         |              |  |     |           | C433,34 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              |  |     |           | C435    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
|         |              |  |     |           | C436    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |  |     |           | C501    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |  |     |           | C502    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
|         |              |  |     |           | C503    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |  |     |           | C504    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
|         |              |  |     |           | C505    | ECUM1H1000CN | C.CAPACITOR CH 50V 10P   | 1   |         |
|         |              |  |     |           | C506    | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
|         |              |  |     |           | C507    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C1,C2   | ECEA0JN221S  | E.CAPACITOR 6.3V 220U                  | 2   |           |         |              |                          |     |         |
| C3,C4   | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 2   |           |         |              |                          |     |         |
| C5      | ECEA0JU101   | E.CAPACITOR 6.3V 100U                  | 1   |           |         |              |                          |     |         |
| C6,C7   | ECUM1H0800CN | C.CAPACITOR CH 50V 8P                  | 2   |           |         |              |                          |     |         |
| C8      | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C9      | ECEA0JU101   | E.CAPACITOR 6.3V 100U                  | 1   |           |         |              |                          |     |         |
| C10     | ECEA1EN4R7S  | E.CAPACITOR 25V 4.7U                   | 1   |           |         |              |                          |     |         |
| C11     | ECEA0JU471   | E.CAPACITOR 6.3V 470U                  | 1   |           |         |              |                          |     |         |
| C12     | ECEA0JU101   | E.CAPACITOR 6.3V 100U                  | 1   |           |         |              |                          |     |         |
| C53     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C56     | ECEA1CU100   | E.CAPACITOR 16V 10U                    | 1   |           |         |              |                          |     |         |
| C57-59  | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 3   |           |         |              |                          |     |         |
| C60     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P                 | 1   |           |         |              |                          |     |         |
| C64     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C66     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C67,68  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U               | 2   |           |         |              |                          |     |         |
| C69     | ECUM1H820JCN | C.CAPACITOR CH 50V 82P                 | 1   |           |         |              |                          |     |         |
| C70     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U               | 1   |           |         |              |                          |     |         |
| C72     | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C73     | ECUM1H180JCN | C.CAPACITOR CH 50V 18P                 | 1   |           |         |              |                          |     |         |
| C74     | ECUM1H0400CN | C.CAPACITOR CH 50V 4P                  | 1   |           |         |              |                          |     |         |
| C75     | ECUM1H820JCN | C.CAPACITOR CH 50V 82P                 | 1   |           |         |              |                          |     |         |
| C76,77  | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U                | 2   |           |         |              |                          |     |         |
| C78     | ECEA1EN4R7S  | E.CAPACITOR 25V 4.7U                   | 1   |           |         |              |                          |     |         |
| C81     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U               | 1   |           |         |              |                          |     |         |
| C82     | ECUM1H330JCN | C.CAPACITOR CH 50V 33P                 | 1   |           |         |              |                          |     |         |
| C83     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C91     | ECUM1H101JCN | C.CAPACITOR CH 50V 100P                | 1   |           |         |              |                          |     |         |
| C92     | ECUM1H181JCN | C.CAPACITOR CH 50V 180P                | 1   |           |         |              |                          |     |         |
| C93     | ECUM1H330JCN | C.CAPACITOR CH 50V 33P                 | 1   |           |         |              |                          |     |         |
| C94     | ECUM1H181JCN | C.CAPACITOR CH 50V 180P                | 1   |           |         |              |                          |     |         |
| C97     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U               | 1   |           |         |              |                          |     |         |
| C101    | ECEA0JU101   | E.CAPACITOR 6.3V 100U                  | 1   |           |         |              |                          |     |         |
| C102-09 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 8   |           |         |              |                          |     |         |
| C110    | ECUM1H471JCN | C.CAPACITOR CH 50V 470P                | 1   |           |         |              |                          |     |         |
| C111    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P                 | 1   |           |         |              |                          |     |         |
| C120    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C121    | ECEA10GE470  | E.CAPACITOR 16V 47U                    | 1   |           |         |              |                          |     |         |
| C123    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C124    | ECEA1AGE101  | E.CAPACITOR 10V 100U                   | 1   |           |         |              |                          |     |         |
| C125    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C126,27 | ECEA1AGE101  | E.CAPACITOR 10V 100U                   | 2   |           |         |              |                          |     |         |
| C130,31 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 2   |           |         |              |                          |     |         |
| C132    | ECEA0JU101   | E.CAPACITOR 6.3V 100U                  | 1   |           |         |              |                          |     |         |
| C133    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C134    | ECEA1H02R2   | E.CAPACITOR 50V 2.2U                   | 1   |           |         |              |                          |     |         |
| C135    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C136    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P                 | 1   |           |         |              |                          |     |         |
| C137    | ECUM1H0700CN | C.CAPACITOR CH 50V 7P                  | 1   |           |         |              |                          |     |         |
| C138    | ECUM1H1000CN | C.CAPACITOR CH 50V 10P                 | 1   |           |         |              |                          |     |         |
| C139    | ECEA0JU221   | E.CAPACITOR 6.3V 220U                  | 1   |           |         |              |                          |     |         |
| C140    | ECEA0JN101S  | E.CAPACITOR 6.3V 100U                  | 1   |           |         |              |                          |     |         |
| C141    | ECUM1H180JCN | C.CAPACITOR CH 50V 18P                 | 1   |           |         |              |                          |     |         |
| C142    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C143    | ECUM1H150JCN | C.CAPACITOR CH 50V 15P                 | 1   |           |         |              |                          |     |         |
| C144    | ECEA0JU101   | E.CAPACITOR 6.3V 100U                  | 1   |           |         |              |                          |     |         |
| C145    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P                 | 1   |           |         |              |                          |     |         |
| C146,47 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U               | 2   |           |         |              |                          |     |         |
| C148    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C149    | ECEA0JU101   | E.CAPACITOR 6.3V 100U                  | 1   |           |         |              |                          |     |         |
| C150    | ECUM1H0500CN | C.CAPACITOR CH 50V 5P                  | 1   |           |         |              |                          |     |         |
| C151    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |
| C152    | ECEA0JN101S  | E.CAPACITOR 6.3V 100U                  | 1   |           |         |              |                          |     |         |
| C153    | ECUM1H150JCN | C.CAPACITOR CH 50V 15P                 | 1   |           |         |              |                          |     |         |
| C156    | ECEA1H02R2   | E.CAPACITOR 50V 2.2U                   | 1   |           |         |              |                          |     |         |
| C157    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U                | 1   |           |         |              |                          |     |         |



| Ref.No.  | Part No.     | Part Name & Description  | Pcs | Remarks | Ref.No.   | Part No.     | Part Name & Description  | Pcs | Remarks |
|----------|--------------|--------------------------|-----|---------|-----------|--------------|--------------------------|-----|---------|
| C509-11  | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U  | 3   |         | C755      | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C513     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C761      | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C516, 17 | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 2   |         | C762      | ECUM1H050DCN | C.CAPACITOR CH 50V 5P    | 1   |         |
| C520     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C763, 64  | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 2   |         |
| C521-23  | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U  | 3   |         | C782      | ECUM1H151JCN | C.CAPACITOR CH 50V 150P  | 1   |         |
| C525     | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 1   |         | C903      | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C526     | ECUM1H070DCN | C.CAPACITOR CH 50V 7P    | 1   |         | C904      | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C527     | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         | C938      | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C528     | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         | C939-41   | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 3   |         |
| C529     | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         | C944      | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C533, 34 | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 2   |         | C945, 46  | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C536     | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 1   |         | C947      | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C537     | ECUM1H070DCN | C.CAPACITOR CH 50V 7P    | 1   |         | C953      | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C538     | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         | C958      | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C540     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C961      | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
| C541     | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         | C962      | ECUM1H040DCN | C.CAPACITOR CH 50V 4P    | 1   |         |
| C542     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C963      | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
| C543     | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         | C966-68   | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 3   |         |
| C544     | ECUM1H080DCN | C.CAPACITOR CH 50V 8P    | 1   |         | C973      | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C545     | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         | C986      | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C546     | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |           |              |                          |     |         |
| C547     | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |           |              |                          |     |         |
| C548     | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U  | 1   |         | CN1, N2   | VJP3176B100  | CONNECTOR (MALE)         | 2   |         |
| C549     | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |           |              |                          |     |         |
| C550, 51 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |           |              |                          |     |         |
| C552     | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |           |              |                          |     |         |
| C553     | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         |           |              |                          |     |         |
| C554     | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |           |              |                          |     |         |
| C555, 56 | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U  | 2   |         | D61       | MA151MK      | DIODE                    | 1   | <R>     |
| C558     | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U  | 1   |         | D101      | MA151WA      | DIODE                    | 1   | <R>     |
| C559     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | D102      | MA151K       | DIODE                    | 1   | <R>     |
| C601     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | D165, 66  | MA151MK      | DIODE                    | 2   | <R>     |
| C603     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | D208      | MA151K       | DIODE                    | 1   | <R>     |
| C605     | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         | D401      | MA151WA      | DIODE                    | 1   | <R>     |
| C606, 67 | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 2   |         | D404      | MA151K       | DIODE                    | 1   | <R>     |
| C616-18  | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 3   |         | D405      | MA151WA      | DIODE                    | 1   | <R>     |
| C620     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | D502      | MA151MK      | DIODE                    | 1   | <R>     |
| C639     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | D603      | MA704        | DIODE                    | 1   | <R>     |
| C640     | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         | D607      | MA704        | DIODE                    | 1   | <R>     |
| C642     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | D701      | MA151K       | DIODE                    | 1   | <R>     |
| C643     | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         | D706      | MA335-R      | DIODE                    | 1   | <R>     |
| C645     | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U  | 1   |         | D710      | MA151WA      | DIODE                    | 1   | <R>     |
| C646     | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |           |              |                          |     |         |
| C647     | ECUM1E104KBN | C.CAPACITOR CH 25V 0.1U  | 1   |         |           |              |                          |     |         |
| C648     | ECEA1H2R2    | E.CAPACITOR 50V 2.2U     | 1   |         |           |              |                          |     |         |
| C657     | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         | FL1       | VLF0932      | FILTER                   | 1   |         |
| C659     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | FL10      | VLF0576      | FILTER                   | 1   |         |
| C661     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | FL101, 02 | VLF0576      | FILTER                   | 2   |         |
| C679     | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 1   |         | FL141     | VLF0932      | FILTER                   | 1   |         |
| C701     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         | FL401     | VLF0576      | FILTER                   | 1   |         |
| C702     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | FL603     | VLF0576      | FILTER                   | 1   |         |
| C703     | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         | FL605     | VLF1043      | FILTER                   | 1   |         |
| C704     | ECUM1H471JCN | C.CAPACITOR CH 50V 470P  | 1   |         | FL607     | VLF0576      | FILTER                   | 1   |         |
| C706     | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         | FL701, 02 | VLF0576      | FILTER                   | 2   |         |
| C708     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |           |              |                          |     |         |
| C710     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |           |              |                          |     |         |
| C711     | ECUM1H102JCN | C.CAPACITOR CH 50V 1000P | 1   |         | IC1       | MC14053BF    | IC                       | 1   | <R>     |
| C712     | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         | IC2       | AN78M05      | IC                       | 1   | <R>     |
| C714     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | IC3       | AN79M05      | IC                       | 1   | <R>     |
| C715     | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         | IC4       | AN78M05      | IC                       | 1   | <R>     |
| C716     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | IC10      | AN91A12S     | IC                       | 1   | <R>     |
| C717     | ECUM1H471JCN | C.CAPACITOR CH 50V 470P  | 1   |         | IC11      | MB40568PF    | IC                       | 1   | <R>     |
| C718     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | IC91      | MC74HC74AF   | IC                       | 1   | <R>     |
| C721-24  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 4   |         | IC101     | CXD2105AQ    | IC                       | 1   | <R>     |
| C726, 27 | ECEA1H010SB  | E.CAPACITOR 50V 1U       | 2   |         | IC102, 03 | MB40778PF    | IC                       | 2   | <R>     |
| C728     | ECEA1H4R7SB  | E.CAPACITOR 25V 4.7U     | 1   |         | IC141     | TC4W53F      | IC                       | 1   | <R>     |
| C729     | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         | IC142     | MC14053BF    | IC                       | 1   | <R>     |
| C731     | ECUM1H070DCN | C.CAPACITOR CH 50V 7P    | 1   |         | IC144     | MC14053BF    | IC                       | 1   | <R>     |
| C732     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | IC165     | MC14053BF    | IC                       | 1   | <R>     |
| C740     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | IC212     | MC14053BF    | IC                       | 1   | <R>     |
| C741     | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         | IC214     | AN6041       | IC                       | 1   | <R>     |
| C742     | ECEA1CU220   | E.CAPACITOR 16V 22U      | 1   |         | IC215, 16 | MC14053BF    | IC                       | 2   | <R>     |
| C745, 46 | ECUM1H102JCN | C.CAPACITOR CH 50V 1000P | 2   |         | IC217     | NJMD82BM     | IC                       | 1   | <R>     |
| C752     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | IC218     | MC14053BF    | IC                       | 1   | <R>     |
| C753     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         | IC219, 20 | NJMD82BM     | IC                       | 2   | <R>     |

| Ref.No.   | Part No.     | Part Name & Description | Pcs | Remarks | Ref.No.  | Part No.  | Part Name & Description | Pcs | Remarks |
|-----------|--------------|-------------------------|-----|---------|----------|-----------|-------------------------|-----|---------|
| IC401     | MM74HC221AM  | IC                      | 1   | <R>     | Q146, 47 | 2SB709-R  | TRANSISTOR              | 2   | <R>     |
| IC402     | SN74LS221NS  | IC                      | 1   | <R>     | Q148     | 2SD601-R  | TRANSISTOR              | 1   | <R>     |
| IC403     | UPD65013BC16 | IC                      | 1   | <R>     | Q149, 50 | 2SC2295-B | TRANSISTOR              | 2   | <R>     |
| IC404     | MC74HC04AF   | IC                      | 1   | <R>     | Q151     | 2SA1022-B | TRANSISTOR              | 1   | <R>     |
| IC405     | MM74HC221AM  | IC                      | 1   | <R>     | Q152     | 2SD601-R  | TRANSISTOR              | 1   | <R>     |
| IC406     | MC74HC04AF   | IC                      | 1   | <R>     | Q153     | 2SC2295-B | TRANSISTOR              | 1   | <R>     |
| IC408     | MC145388F    | IC                      | 1   | <R>     | Q154     | 2SB709-R  | TRANSISTOR              | 1   | <R>     |
| IC409     | NJM319M      | IC                      | 1   | <R>     | Q160     | 2SB709-R  | TRANSISTOR              | 1   | <R>     |
| IC410     | MC145288F    | IC                      | 1   | <R>     | Q161     | 2SD601-R  | TRANSISTOR              | 1   | <R>     |
| IC411     | TC4W53F      | IC                      | 1   | <R>     | Q162, 63 | 2SC2295-B | TRANSISTOR              | 2   | <R>     |
| IC501     | NJM0828M     | IC                      | 1   | <R>     | Q164     | 2SA1022-B | TRANSISTOR              | 1   | <R>     |
| IC505     | AN91A12S     | IC                      | 1   | <R>     | Q165     | 2SD601-R  | TRANSISTOR              | 1   | <R>     |
| IC601, 02 | MB40568PF    | IC                      | 2   | <R>     | Q201     | 2SB709-R  | TRANSISTOR              | 1   | <R>     |
| IC606     | MB40778PF    | IC                      | 1   | <R>     | Q202, 03 | 2SD601-R  | TRANSISTOR              | 2   | <R>     |
| IC700     | AN78L09      | IC                      | 1   | <R>     | Q204     | 2SB709-R  | TRANSISTOR              | 1   | <R>     |
| IC703     | SN74LS221NS  | IC                      | 1   | <R>     | Q230     | 2SB709-R  | TRANSISTOR              | 1   | <R>     |
| IC705     | MC74HC74AF   | IC                      | 1   | <R>     | Q231, 32 | 2SD601-R  | TRANSISTOR              | 2   | <R>     |
| IC706     | NJM0828M     | IC                      | 1   | <R>     | Q233     | 2SC2404   | TRANSISTOR              | 1   | <R>     |
| IC707     | TC4W53F      | IC                      | 1   | <R>     | Q234     | 2SB709-R  | TRANSISTOR              | 1   | <R>     |
| IC709     | MC74HC04AF   | IC                      | 1   | <R>     | Q235, 36 | 2SD601-R  | TRANSISTOR              | 2   | <R>     |
| IC710     | SN74LS221NS  | IC                      | 1   | <R>     | Q237     | 2SC2404   | TRANSISTOR              | 1   | <R>     |
| IC712     | TC4S584F     | IC                      | 1   | <R>     | Q238     | 2SD601-R  | TRANSISTOR              | 1   | <R>     |
| IC714     | MC74HC163AF  | IC                      | 1   | <R>     | Q240     | UN2213    | TRANSISTOR              | 1   | <R>     |
| IC781     | SN74LS221NS  | IC                      | 1   | <R>     | Q241     | 2SD601-R  | TRANSISTOR              | 1   | <R>     |
| IC901     | TC4W53F      | IC                      | 1   | <R>     | Q243     | 2SD601-R  | TRANSISTOR              | 1   | <R>     |
| IC909     | CF45073P     | IC                      | 1   | <R>     | Q402     | 2SD601-R  | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q501, 02 | 2SB709-R  | TRANSISTOR              | 2   | <R>     |
|           |              |                         |     |         | Q503, 04 | 2SC2295-B | TRANSISTOR              | 2   | <R>     |
|           |              |                         |     |         | Q505     | 2SA1022-B | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q506     | 2SC2295-B | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q507     | 2SK374-R  | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q509, 10 | 2SB709-R  | TRANSISTOR              | 2   | <R>     |
|           |              |                         |     |         | Q511, 12 | 2SC2295-B | TRANSISTOR              | 2   | <R>     |
|           |              |                         |     |         | Q513     | 2SA1022-B | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q514     | 2SC2295-B | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q515     | 2SK374-R  | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q516, 17 | 2SD601-R  | TRANSISTOR              | 2   | <R>     |
|           |              |                         |     |         | Q518     | 2SB709-R  | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q525     | 2SA1022-B | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q601     | 2SB709-R  | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q604-06  | 2SD601-R  | TRANSISTOR              | 3   | <R>     |
|           |              |                         |     |         | Q705     | 2SC2295-B | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q707     | 2SC3757-R | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q708, 09 | 2SA1226   | TRANSISTOR              | 2   | <R>     |
|           |              |                         |     |         | Q710     | 2SC3757-R | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q711     | 2SB709-R  | TRANSISTOR              | 1   | <R>     |
|           |              |                         |     |         | Q910-12  | 2SD601-R  | TRANSISTOR              | 3   | <R>     |
|           |              |                         |     |         |          |           |                         |     |         |
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| Ref.No.  | Part No.    | Part Name & Description | Pcs  | Remarks | Ref.No.  | Part No.    | Part Name & Description | Pcs  | Remarks |
|----------|-------------|-------------------------|------|---------|----------|-------------|-------------------------|------|---------|
| R28      | ERJ6GEYJ150 | M.RESISTOR CH1/10W      | 15   | 1       | R164     | ERJ6GEYJ681 | M.RESISTOR CH1/10W      | 680  | 1       |
| R29      | ERJ6GEYJ221 | M.RESISTOR CH1/10W      | 220  | 1       | R165     | ERJ6GEYJ471 | M.RESISTOR CH1/10W      | 470  | 1       |
| R30, 31  | ERJ6GEYJ152 | M.RESISTOR CH1/10W      | 1.5K | 2       | R166     | ERJ6GEYJ332 | M.RESISTOR CH1/10W      | 3.3K | 1       |
| R32      | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       | R167     | ERJ6GEYJ221 | M.RESISTOR CH1/10W      | 220  | 1       |
| R33      | ERJ6GEYJ150 | M.RESISTOR CH1/10W      | 15   | 1       | R168     | ERJ6GEYJ682 | M.RESISTOR CH1/10W      | 6.8K | 1       |
| R36      | ERDS2TJ153  | C.RESISTOR 1/4W         | 15K  | 1       | R169     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       |
| R34      | ERJ6GEYJ470 | M.RESISTOR CH1/10W      | 47   | 1       | R170     | ERJ6GEYJ470 | M.RESISTOR CH1/10W      | 47   | 1       |
| R35      | ERJ6GEYJ683 | M.RESISTOR CH1/10W      | 68K  | 1       | R171     | ERJ6GEYJ333 | M.RESISTOR CH1/10W      | 33K  | 1       |
| R37      | ERJ6GEYJ471 | M.RESISTOR CH1/10W      | 470  | 1       | R172     | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 1       |
| R38      | ERJ6GEYJ223 | M.RESISTOR CH1/10W      | 22K  | 1       | R173     | ERJ6GEYJ332 | M.RESISTOR CH1/10W      | 3.3K | 1       |
| R39      | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       | R174     | ERJ6GEYJ152 | M.RESISTOR CH1/10W      | 1.5K | 1       |
| R67      | ERJ6GEYJ105 | M.RESISTOR CH1/10W      | 1M   | 1       | R175, 76 | ERJ6GEYJ330 | M.RESISTOR CH1/10W      | 33   | 2       |
| R68      | ERJ6GEYJ684 | M.RESISTOR CH1/10W      | 680K | 1       | R177     | ERJ6GEYJ101 | M.RESISTOR CH1/10W      | 100  | 1       |
| R69      | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 1       | R178     | ERJ6GEYJ682 | M.RESISTOR CH1/10W      | 6.8K | 1       |
| R70, 71  | ERJ6GEYJ223 | M.RESISTOR CH1/10W      | 22K  | 2       | R179     | ERJ6GEYJ221 | M.RESISTOR CH1/10W      | 220  | 1       |
| R72      | ERJ6GEYJ222 | M.RESISTOR CH1/10W      | 2.2K | 1       | R180     | VRE0034E222 | M.RESISTOR CH 1/10W     | 2.2K | 1       |
| R73      | ERJ6GEYJ221 | M.RESISTOR CH1/10W      | 220  | 1       | R181     | VRE0034E103 | M.RESISTOR CH 1/10W     | 10K  | 1       |
| R74      | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 1       | R182     | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 1       |
| R75      | ERJ6GEYJ223 | M.RESISTOR CH1/10W      | 22K  | 1       | R183, 84 | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 2       |
| R76      | ERJ6GEYJ101 | M.RESISTOR CH1/10W      | 100  | 1       | R185     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       |
| R77      | ERJ6GEYJ151 | M.RESISTOR CH1/10W      | 150  | 1       | R186     | ERJ6GEYJ222 | M.RESISTOR CH1/10W      | 2.2K | 1       |
| R78      | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       | R187     | ERJ6GEYJ471 | M.RESISTOR CH1/10W      | 470  | 1       |
| R79, 80  | ERJ6GEYJ222 | M.RESISTOR CH1/10W      | 2.2K | 2       | R189     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       |
| R81      | ERJ6GEYJ153 | M.RESISTOR CH1/10W      | 15K  | 1       | R190     | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 1       |
| R82      | ERJ6GEYJ821 | M.RESISTOR CH1/10W      | 820  | 1       | R191     | ERJ6GEYJ564 | M.RESISTOR CH1/10W      | 560K | 1       |
| R83      | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 1       | R192     | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 1       |
| R84      | ERJ6GEYJ222 | M.RESISTOR CH1/10W      | 2.2K | 1       | R193     | ERJ6GEYJ101 | M.RESISTOR CH1/10W      | 100  | 1       |
| R85      | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       | R194     | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 1       |
| R86      | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 1       | R195, 96 | ERJ6GEYJ101 | M.RESISTOR CH1/10W      | 100  | 2       |
| R87      | ERJ6GEYJ221 | M.RESISTOR CH1/10W      | 220  | 1       | R197     | ERJ6GEYJ222 | M.RESISTOR CH1/10W      | 2.2K | 1       |
| R88, 89  | ERJ6GEYOR00 | M.RESISTOR CH1/10W      | 0.00 | 2       | R198, 99 | ERJ6GEYJ471 | M.RESISTOR CH1/10W      | 470  | 2       |
| R93      | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       | R200     | ERJ6GEYJ272 | M.RESISTOR CH1/10W      | 2.7K | 1       |
| R94      | ERJ6GEYJ222 | M.RESISTOR CH1/10W      | 2.2K | 1       | R201     | ERJ6GEYJ470 | M.RESISTOR CH1/10W      | 47   | 1       |
| R95      | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       | R202     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       |
| R96      | ERJ6GEYJ152 | M.RESISTOR CH1/10W      | 1.5K | 1       | R203     | ERJ6GEYJ332 | M.RESISTOR CH1/10W      | 3.3K | 1       |
| R97      | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 1       | R204     | ERJ6GEYJ330 | M.RESISTOR CH1/10W      | 33   | 1       |
| R98      | ERJ6GEYJ470 | M.RESISTOR CH1/10W      | 47   | 1       | R205     | ERJ6GEYJ470 | M.RESISTOR CH1/10W      | 47   | 1       |
| R99      | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       | R206     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       |
| R101     | ERJ6GEYOR00 | M.RESISTOR CH1/10W      | 0.00 | 1       | R209     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       |
| R103     | ERJ6GEYOR00 | M.RESISTOR CH1/10W      | 0.00 | 1       | R210     | ERJ6GEYJ101 | M.RESISTOR CH1/10W      | 100  | 1       |
| R106     | ERJ6GEYOR00 | M.RESISTOR CH1/10W      | 0.00 | 1       | R211     | ERJ6GEYJ330 | M.RESISTOR CH1/10W      | 33   | 1       |
| R108     | ERJ6GEYJ152 | M.RESISTOR CH1/10W      | 1.5K | 1       | R212     | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 1       |
| R113     | ERJ6GEYJ682 | M.RESISTOR CH1/10W      | 6.8K | 1       | R213-16  | ERJ6GEYOR00 | M.RESISTOR CH1/10W      | 0.00 | 4       |
| R114     | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 1       | R219     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       |
| R115, 16 | ERJ6GEYJ332 | M.RESISTOR CH1/10W      | 3.3K | 2       | R220     | ERJ6GEYJ101 | M.RESISTOR CH1/10W      | 100  | 1       |
| R117     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       | R221     | ERJ6GEYJ330 | M.RESISTOR CH1/10W      | 33   | 1       |
| R118     | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 1       | R295, 96 | ERJ6GEYJ682 | M.RESISTOR CH1/10W      | 6.8K | 2       |
| R121     | ERJ6GEYOR00 | M.RESISTOR CH1/10W      | 0.00 | 1       | R297     | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 1       |
| R131     | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 1       | R298     | ERJ6GEYJ470 | M.RESISTOR CH1/10W      | 47   | 1       |
| R134     | ERJ6GEYJ223 | M.RESISTOR CH1/10W      | 22K  | 1       | R299, 00 | ERJ6GEYJ152 | M.RESISTOR CH1/10W      | 1.5K | 2       |
| R135     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       | R301     | ERJ6GEYJ221 | M.RESISTOR CH1/10W      | 220  | 1       |
| R136     | ERJ6GEYJ223 | M.RESISTOR CH1/10W      | 22K  | 1       | R302     | ERJ6GEYJ470 | M.RESISTOR CH1/10W      | 47   | 1       |
| R139     | ERJ6GEYJ223 | M.RESISTOR CH1/10W      | 22K  | 1       | R303     | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 1       |
| R141     | VRE0034E222 | M.RESISTOR CH 1/10W     | 2.2K | 1       | R304     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       |
| R142     | VRE0034E103 | M.RESISTOR CH 1/10W     | 10K  | 1       | R305     | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 1       |
| R143     | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 1       | R306     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       |
| R144     | ERJ6GEYJ122 | M.RESISTOR CH1/10W      | 1.2K | 1       | R307     | ERJ6GEYJ153 | M.RESISTOR CH1/10W      | 15K  | 1       |
| R145     | ERJ6GEYJ682 | M.RESISTOR CH1/10W      | 6.8K | 1       | R308     | ERJ6GEYJ680 | M.RESISTOR CH1/10W      | 68   | 1       |
| R146     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       | R309     | ERJ6GEYJ105 | M.RESISTOR CH1/10W      | 1M   | 1       |
| R147     | ERJ6GEYJ332 | M.RESISTOR CH1/10W      | 3.3K | 1       | R310, 11 | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 2       |
| R148     | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 1       | R315, 16 | ERJ6GEYJ681 | M.RESISTOR CH1/10W      | 680  | 2       |
| R149     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       | R317     | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 1       |
| R150     | ERJ6GEYJ470 | M.RESISTOR CH1/10W      | 47   | 1       | R318     | ERJ6GEYJ470 | M.RESISTOR CH1/10W      | 47   | 1       |
| R151     | ERJ6GEYJ222 | M.RESISTOR CH1/10W      | 2.2K | 1       | R319     | ERJ6GEYJ152 | M.RESISTOR CH1/10W      | 1.5K | 1       |
| R152, 53 | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 2       | R320     | ERJ6GEYJ221 | M.RESISTOR CH1/10W      | 220  | 1       |
| R154     | ERJ6GEYJ182 | M.RESISTOR CH1/10W      | 1.8K | 1       | R321     | ERJ6GEYJ152 | M.RESISTOR CH1/10W      | 1.5K | 1       |
| R155     | ERJ6GEYJ222 | M.RESISTOR CH1/10W      | 2.2K | 1       | R322     | ERJ6GEYJ470 | M.RESISTOR CH1/10W      | 47   | 1       |
| R156     | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 1       | R323     | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 1       |
| R157     | ERJ6GEYJ471 | M.RESISTOR CH1/10W      | 470  | 1       | R324     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       |
| R158     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       | R325     | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 1       |
| R159     | ERJ6GEYJ101 | M.RESISTOR CH1/10W      | 100  | 1       | R326     | ERJ6GEYJ472 | M.RESISTOR CH1/10W      | 4.7K | 1       |
| R160     | ERJ6GEYJ102 | M.RESISTOR CH1/10W      | 1K   | 1       | R327     | ERJ6GEYJ153 | M.RESISTOR CH1/10W      | 15K  | 1       |
| R161     | ERJ6GEYJ101 | M.RESISTOR CH1/10W      | 100  | 1       | R328     | ERJ6GEYJ680 | M.RESISTOR CH1/10W      | 68   | 1       |
| R162     | ERJ6GEYJ222 | M.RESISTOR CH1/10W      | 2.2K | 1       | R330     | ERJ6GEYJ105 | M.RESISTOR CH1/10W      | 1M   | 1       |
| R163     | ERJ6GEYJ101 | M.RESISTOR CH1/10W      | 100  | 1       | R331, 32 | ERJ6GEYJ103 | M.RESISTOR CH1/10W      | 10K  | 2       |

| Ref.No.   | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|-----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R335      | ERJ6GEYJ101 | M.RESISTOR CH1/10W 100   | 1   |         | R525     | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         |
| R336      | ERJ6GEYJ332 | M.RESISTOR CH1/10W 3.3K  | 1   |         | R526     | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         |
| R337      | ERJ6GEYJ223 | M.RESISTOR CH1/10W 22K   | 1   |         | R527     | ERJ6GEYJ102 | M.RESISTOR CH1/10W 1K    | 1   |         |
| R338, 39  | ERJ6GEYJ101 | M.RESISTOR CH1/10W 100   | 2   |         | R528     | ERJ6GEYJ682 | M.RESISTOR CH1/10W 6.8K  | 1   |         |
| R340      | ERJ6GEYJ472 | M.RESISTOR CH1/10W 4.7K  | 1   |         | R529     | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         |
| R341      | ERJ6GEYJ332 | M.RESISTOR CH1/10W 3.3K  | 1   |         | R530     | ERJ6GEYJ104 | M.RESISTOR CH1/10W 100K  | 1   |         |
| R342-44   | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 3   |         | R531     | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         |
| R345      | ERJ6GEYJ472 | M.RESISTOR CH1/10W 4.7K  | 1   |         | R532     | ERJ6GEYJ102 | M.RESISTOR CH1/10W 1K    | 1   |         |
| R346      | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         | R533     | ERJ6GEYJ470 | M.RESISTOR CH1/10W 47    | 1   |         |
| R347      | ERJ6GEYJ334 | M.RESISTOR CH1/10W 330K  | 1   |         | R535     | VRE00606472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R348-50   | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 3   |         | R536     | ERJ6GEYJ473 | M.RESISTOR CH1/10W 47K   | 1   |         |
| R351      | ERJ6GEYJ223 | M.RESISTOR CH1/10W 22K   | 1   |         | R538     | ERJ6GEYJ332 | M.RESISTOR CH1/10W 3.3K  | 1   |         |
| R353      | ERJ6GEYJ471 | M.RESISTOR CH1/10W 470   | 1   |         | R539     | VRE0034E102 | M.RESISTOR III 1/10W 1K  | 1   |         |
| R354      | ERJ6GEYJ102 | M.RESISTOR CH1/10W 1K    | 1   |         | R540     | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         |
| R356      | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         | R541     | ERJ6GEYJ154 | M.RESISTOR CH1/10W 150K  | 1   |         |
| R357      | ERJ6GEYOR00 | M.RESISTOR CH1/10W 0.00  | 1   |         | R543     | ERJ6GEYJ331 | M.RESISTOR CH1/10W 330   | 1   |         |
| R359      | ERJ6GEYJ105 | M.RESISTOR CH1/10W III   | 1   |         | R544     | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         |
| R374      | ERJ6GEYJ472 | M.RESISTOR CH1/10W 4.7K  | 1   |         | R545     | ERJ6GEYK475 | M.RESISTOR CH1/10W 4.7M  | 1   |         |
| R401      | ERJ6GEYJ473 | M.RESISTOR CH1/10W 47K   | 1   |         | R546     | ERJ6GEYJ472 | M.RESISTOR CH1/10W 4.7K  | 1   |         |
| R402      | ERJ6GEYJ153 | M.RESISTOR CH1/10W 15K   | 1   |         | R547     | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         |
| R403      | ERJ6GEYJ332 | M.RESISTOR CH1/10W 3.3K  | 1   |         | R549     | ERJ6GEYJ104 | M.RESISTOR CH1/10W 100K  | 1   |         |
| R404      | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         | R550     | ERJ6GEYJ102 | M.RESISTOR CH1/10W 1K    | 1   |         |
| R405      | ERJ6GEYJ472 | M.RESISTOR CH1/10W 4.7K  | 1   |         | R551, 52 | ERJ6GEYJ101 | M.RESISTOR CH1/10W 100   | 2   |         |
| R406      | ERJ6GEYJ104 | M.RESISTOR CH1/10W 100K  | 1   |         | R553     | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         |
| R411      | ERJ6GEYOR00 | M.RESISTOR CH1/10W 0.00  | 1   |         | R554     | ERJ6GEYJ221 | M.RESISTOR CH1/10W 220   | 1   |         |
| R412      | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         | R555     | ERJ6GEYJ682 | M.RESISTOR CH1/10W 6.8K  | 1   |         |
| R414      | ERJ6GEYOR00 | M.RESISTOR CH1/10W 0.00  | 1   |         | R556     | ERJ6GEYJ332 | M.RESISTOR CH1/10W 3.3K  | 1   |         |
| R416      | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         | R559     | ERJ6GEYJ152 | M.RESISTOR CH1/10W 1.5K  | 1   |         |
| R417      | ERJ6GEYJ152 | M.RESISTOR CH1/10W 1.5K  | 1   |         | R560     | ERJ6GEYJ682 | M.RESISTOR CH1/10W 6.8K  | 1   |         |
| R420      | ERD52TJ473  | C.RESISTOR 1/W 47K       | 1   |         | R561     | ERJ6GEYJ273 | M.RESISTOR CH1/10W 27K   | 1   |         |
| R421      | ERJ6GEYJ682 | M.RESISTOR CH1/10W 6.8K  | 1   |         | R562     | ERJ6GEYJ153 | M.RESISTOR CH1/10W 15K   | 1   |         |
| R422      | ERJ6GEYJ473 | M.RESISTOR CH1/10W 47K   | 1   |         | R571     | ERJ6GEYJ152 | M.RESISTOR CH1/10W 1.5K  | 1   |         |
| R425      | ERJ6GEYJ472 | M.RESISTOR CH1/10W 4.7K  | 1   |         | R572     | ERJ6GEYJ271 | M.RESISTOR CH1/10W 270   | 1   |         |
| R427      | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         | R573     | ERJ6GEYJ101 | M.RESISTOR CH1/10W 100   | 1   |         |
| R432      | ERJ6GEYJ473 | M.RESISTOR CH1/10W 47K   | 1   |         | R574     | ERJ6GEYJ102 | M.RESISTOR CH1/10W 1K    | 1   |         |
| R433      | ERJ6GEYJ393 | M.RESISTOR CH1/10W 39K   | 1   |         | R575     | ERJ6GEYJ330 | M.RESISTOR CH1/10W 33    | 1   |         |
| R437      | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         | R576     | ERJ6GEYJ105 | M.RESISTOR CH1/10W III   | 1   |         |
| R439      | ERJ6GEYJ152 | M.RESISTOR CH1/10W 1.5K  | 1   |         | R577     | ERJ6GEYJ684 | M.RESISTOR CH1/10W 680K  | 1   |         |
| R440      | ERJ6GEYJ472 | M.RESISTOR CH1/10W 4.7K  | 1   |         | R578     | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         |
| R441      | ERJ6GEYJ152 | M.RESISTOR CH1/10W 1.5K  | 1   |         | R579     | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         |
| R445      | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         | R580     | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         |
| R451      | ERJ6GEYJ221 | M.RESISTOR CH1/10W 220   | 1   |         | R581-83  | ERJ6GEYJ223 | M.RESISTOR CH1/10W 22K   | 3   |         |
| R452      | ERJ6GEYJ682 | M.RESISTOR CH1/10W 6.8K  | 1   |         | R584     | ERJ6GEYJ152 | M.RESISTOR CH1/10W 1.5K  | 1   |         |
| R453      | ERJ6GEYJ332 | M.RESISTOR CH1/10W 3.3K  | 1   |         | R585     | ERJ6GEYJ470 | M.RESISTOR CH1/10W 47    | 1   |         |
| R460      | ERJ6GEYJ472 | M.RESISTOR CH1/10W 4.7K  | 1   |         | R589     | ERJ6GEYJ221 | M.RESISTOR CH1/10W 220   | 1   |         |
| R461      | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         | R593     | ERJ6GEYJ470 | M.RESISTOR CH1/10W 47    | 1   |         |
| R462      | ERJ6GEYJ101 | M.RESISTOR CH1/10W 100   | 1   |         | R601, 02 | ERJ6GEYJ101 | M.RESISTOR CH1/10W 100   | 2   |         |
| R463, 64  | ERJ6GEYJ472 | M.RESISTOR CH1/10W 4.7K  | 2   |         | R614     | VRE0034E473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R465      | ERJ6GEYJ105 | M.RESISTOR CH1/10W 1M    | 1   |         | R615     | VRE0034E223 | M.RESISTOR III 1/10W 22K | 1   |         |
| R466      | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         | R616     | VRE0034E473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R467      | ERJ6GEYJ101 | M.RESISTOR CH1/10W 100   | 1   |         | R617     | VRE0034E223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R468      | ERJ6GEYJ472 | M.RESISTOR CH1/10W 4.7K  | 1   |         | R621     | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         |
| R469      | ERJ6GEYOR00 | M.RESISTOR CH1/10W 0.00  | 1   |         | R622     | ERJ6GEYJ102 | M.RESISTOR CH1/10W 1K    | 1   |         |
| R501      | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         | R623, 24 | VRE0034E471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R502      | ERJ6GEYJ102 | M.RESISTOR CH1/10W 1K    | 1   |         | R625     | ERJ6GEYJ470 | M.RESISTOR CH1/10W 47    | 1   |         |
| R503      | ERJ6GEYJ682 | M.RESISTOR CH1/10W 6.8K  | 1   |         | R631     | ERJ6GEYJ101 | M.RESISTOR CH1/10W 100   | 1   |         |
| R504      | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         | R632     | ERJ6GEYJ472 | M.RESISTOR CH1/10W 4.7K  | 1   |         |
| R505      | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R633     | ERJ6GEYJ272 | M.RESISTOR CH1/10W 2.7K  | 1   |         |
| R506      | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         | R635     | VRE0034E681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R507      | ERJ6GEYJ102 | M.RESISTOR CH1/10W 1K    | 1   |         | R636     | VRE0034E152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R508      | ERJ6GEYJ470 | M.RESISTOR CH1/10W 47    | 1   |         | R638     | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         |
| R509, 10  | ERJ6GEYJ102 | M.RESISTOR CH1/10W 1K    | 2   |         | R648     | ERJ6GEYJ330 | M.RESISTOR CH1/10W 33    | 1   |         |
| R511      | ERJ6GEYJ470 | M.RESISTOR CH1/10W 47    | 1   |         | R656     | ERJ6GEYJ221 | M.RESISTOR CH1/10W 220   | 1   |         |
| R512      | ERJ6GEYJ102 | M.RESISTOR CH1/10W 1K    | 1   |         | R658     | VRE0034E222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R513      | VRE00606472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R659     | VRE0034E103 | M.RESISTOR III 1/10W 10K | 1   |         |
| R514      | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         | R660-67  | ERJ6GEYJ331 | M.RESISTOR CH1/10W 330   | 8   |         |
| R515      | ERJ6GEYJ473 | M.RESISTOR CH1/10W 47K   | 1   |         | R701     | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         |
| R516      | ERJ6GEYJ332 | M.RESISTOR CH1/10W 3.3K  | 1   |         | R702     | ERJ6GEYJ682 | M.RESISTOR CH1/10W 6.8K  | 1   |         |
| R517, III | ERJ6GEYJ101 | M.RESISTOR CH1/10W 100   | 2   |         | R703     | ERJ6GEYJ222 | M.RESISTOR CH1/10W 2.2K  | 1   |         |
| R519      | ERJ6GEYJ154 | M.RESISTOR CH1/10W 150K  | 1   |         | R704     | ERJ6GEYJ683 | M.RESISTOR CH1/10W 68K   | 1   |         |
| R520      | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         | R705     | ERJ6GEYJ332 | M.RESISTOR CH1/10W 3.3K  | 1   |         |
| R521      | ERJ6GEYJ331 | M.RESISTOR CH1/10W 330   | 1   |         | R706, 07 | ERJ6GEYJ562 | M.RESISTOR CH1/10W 5.6K  | 2   |         |
| R522      | ERJ6GEYK475 | M.RESISTOR CH1/10W 4.7M  | 1   |         | R708     | ERJ6GEYJ332 | M.RESISTOR CH1/10W 3.3K  | 1   |         |
| R523      | ERJ6GEYJ103 | M.RESISTOR CH1/10W 10K   | 1   |         | R709     | ERJ6GEYJ153 | M.RESISTOR CH1/10W 15K   | 1   |         |
| R524      | ERJ6GEYJ472 | M.RESISTOR CH1/10W 4.7K  | 1   |         | R710     | ERJ6GEYJ681 | M.RESISTOR CH1/10W 680   | 1   |         |

| Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|----------|--------------|-------------------------|-----|---------|
| R712     | ERJ6GEYJ682  | M.RESISTOR CH1/10W 6.8K | 1   |         | VR601,02 | EVMEGSA00B14 | V.RESISTOR 10K          | 1   |         |
| R713     | ERJ6GEYJ152  | M.RESISTOR CH1/10W 1.5K | 1   |         | VR701    | EVMEGSA00B23 | V.RESISTOR 2K           | 1   |         |
| R719     | ERJ6GEYJ103  | M.RESISTOR CH1/10W 10K  | 1   |         | VR702    | EVMEASA00B53 | V.RESISTOR 5K           | 1   |         |
| R721     | ERJ6GEYJ223  | M.RESISTOR CH1/10W 22K  | 1   |         | VR906    | EVMEASA00B53 | V.RESISTOR 5K           | 1   |         |
| R722     | ERJ6GEYJ682  | M.RESISTOR CH1/10W 6.8K | 1   |         |          |              |                         |     |         |
| R730     | ERJ6GEYJ152  | M.RESISTOR CH1/10W 1.5K | 1   |         |          |              |                         |     |         |
| R731     | ERJ6GEYJ393  | M.RESISTOR CH1/10W 39K  | 1   |         |          |              |                         |     |         |
| R732     | ERJ6GEYJ223  | M.RESISTOR CH1/10W 22K  | 1   |         | X201     | VSX0270      | CRYSTAL OSCILLATOR      | 1   | <R>     |
| R738     | ERJ6GEYJ152  | M.RESISTOR CH1/10W 1.5K | 1   |         |          |              |                         |     |         |
| R742     | ERJ6GEYJ104  | M.RESISTOR CH1/10W 100K | 1   |         |          |              |                         |     |         |
| R743     | ERJ6GEYJ103  | M.RESISTOR CH1/10W 10K  | 1   |         |          |              |                         |     |         |
| R751     | ERJ6GEYJ472  | M.RESISTOR CH1/10W 4.7K | 1   |         |          |              | MISCELLANEOUS           |     |         |
| R752     | ERJ6GEYJ102  | M.RESISTOR CH1/10W 1K   | 1   |         |          | VM12143      | CARD PULLER             | 1   |         |
| R753,54  | ERJ6GEYJ472  | M.RESISTOR CH1/10W 4.7K | 2   |         |          | VM12144      | CARD PULLER             | 1   |         |
| R755,56  | ERJ6GEYJ222  | M.RESISTOR CH1/10W 2.2K | 2   |         |          | VM21547      | BARRIER                 | 1   |         |
| R761     | ERJ6GEYJ103  | M.RESISTOR CH1/10W 10K  | 1   |         |          | VXA3966      | P.C.B. SHIELD PLATE     | 1   |         |
| R762     | ERJ6GEYJ123  | M.RESISTOR CH1/10W 12K  | 1   |         |          | XYW3+K6FR    | SCREW                   | 5   |         |
| R763,64  | ERJ6GEYJ102  | M.RESISTOR CH1/10W 1K   | 2   |         |          |              |                         |     |         |
| R765     | ERJ6GEYJ332  | M.RESISTOR CH1/10W 3.3K | 1   |         |          |              |                         |     |         |
| R766     | ERJ6GEYJ470  | M.RESISTOR CH1/10W 47   | 1   |         |          |              |                         |     |         |
| R770,71  | ERJ6GEYJ682  | M.RESISTOR CH1/10W 6.8K | 2   |         |          |              |                         |     |         |
| R783     | ERJ6GEYJ103  | M.RESISTOR CH1/10W 10K  | 1   |         |          |              |                         |     |         |
| R901     | ERJ6GEY0R00  | M.RESISTOR CH1/10W 0.00 | 1   |         |          |              |                         |     |         |
| R902     | ERJ6GEYJ473  | M.RESISTOR CH1/10W 47K  | 2   |         |          |              |                         |     |         |
| R921     | ERJ6GEYJ682  | M.RESISTOR CH1/10W 6.8K | 1   |         |          |              |                         |     |         |
| R922     | ERJ6GEYJ103  | M.RESISTOR CH1/10W 10K  | 1   |         |          |              |                         |     |         |
| R926     | ERJ6GEYJ682  | M.RESISTOR CH1/10W 6.8K | 1   |         |          |              |                         |     |         |
| R927     | ERJ6GEYJ102  | M.RESISTOR CH1/10W 1K   | 1   |         |          |              |                         |     |         |
| R932     | ERJ6GEYJ104  | M.RESISTOR CH1/10W 100K | 1   |         |          |              |                         |     |         |
| R933     | ERJ6GEY6680  | M.RESISTOR CH1/10W 68   | 1   |         |          |              |                         |     |         |
| R934     | ERJ6GEYJ562  | M.RESISTOR CH1/10W 5.6K | 1   |         |          |              |                         |     |         |
| R935     | ERJ6GEYJ152  | M.RESISTOR CH1/10W 1.5K | 1   |         |          |              |                         |     |         |
| R936     | ERJ6GEY0R00  | M.RESISTOR CH1/10W 0.00 | 1   |         |          |              |                         |     |         |
| R938,39  | ERJ6GEY0R00  | M.RESISTOR CH1/10W 0.00 | 2   |         |          |              |                         |     |         |
| R942-44  | ERJ6GEY0R00  | M.RESISTOR CH1/10W 0.00 | 3   |         |          |              |                         |     |         |
| R945     | ERJ6GEYJ152  | M.RESISTOR CH1/10W 1.5K | 1   |         |          |              |                         |     |         |
| R946     | ERJ6GEYJ102  | M.RESISTOR CH1/10W 1K   | 1   |         |          |              |                         |     |         |
| R947     | ERJ6GEYJ122  | M.RESISTOR CH1/10W 1.2K | 1   |         |          |              |                         |     |         |
| R950     | ERJ6GEYJ682  | M.RESISTOR CH1/10W 6.8K | 1   |         |          |              |                         |     |         |
| R951     | ERJ6GEYJ472  | M.RESISTOR CH1/10W 4.7K | 1   |         |          |              |                         |     |         |
| R952     | ERJ6GEYJ332  | M.RESISTOR CH1/10W 3.3K | 1   |         |          |              |                         |     |         |
| R953     | ERJ6GEYJ684  | M.RESISTOR CH1/10W 680K | 1   |         |          |              |                         |     |         |
| R980     | ERJ6GEYJ102  | M.RESISTOR CH1/10W 1K   | 1   |         |          |              |                         |     |         |
| R981,82  | ERJ6GEYJ682  | M.RESISTOR CH1/10W 6.8K | 2   |         |          |              |                         |     |         |
| R984     | ERJ6GEYJ472  | M.RESISTOR CH1/10W 4.7K | 1   |         |          |              |                         |     |         |
| R997     | ERJ6GEYJ473  | M.RESISTOR CH1/10W 47K  | 1   |         |          |              |                         |     |         |
| R999     | ERJ6GEY0R00  | M.RESISTOR CH1/10W 0.00 | 1   |         |          |              |                         |     |         |
|          |              |                         |     |         |          |              |                         |     |         |
|          |              |                         |     |         |          |              |                         |     |         |
| SW401    | VSS0283      | SWITCH                  | 1   | <R>     |          |              |                         |     |         |
|          |              |                         |     |         |          |              |                         |     |         |
|          |              |                         |     |         |          |              |                         |     |         |
| VC141    | VCV0050      | TRIMMER                 | 1   |         |          |              |                         |     |         |
| VC401    | VCV0050      | TRIMMER                 | 1   |         |          |              |                         |     |         |
| VC501,02 | VCV0031      | TRIMMER                 | 2   |         |          |              |                         |     |         |
|          |              |                         |     |         |          |              |                         |     |         |
|          |              |                         |     |         |          |              |                         |     |         |
| VL701    | VLQ0415      | COIL                    | 1   |         |          |              |                         |     |         |
|          |              |                         |     |         |          |              |                         |     |         |
|          |              |                         |     |         |          |              |                         |     |         |
| VR1      | EVMEASA00B13 | V.RESISTOR 1K           | 1   |         |          |              |                         |     |         |
| VR81     | EVMEASA00B13 | V.RESISTOR 1K           | 1   |         |          |              |                         |     |         |
| VR141,42 | EVMEASA00B23 | V.RESISTOR 2K           | 2   |         |          |              |                         |     |         |
| VR165    | EVMEASA00B23 | V.RESISTOR 2K           | 1   |         |          |              |                         |     |         |
| VR212-15 | EVMEGSA00B13 | V.RESISTOR 1K           | 4   |         |          |              |                         |     |         |
| VR216,17 | EVMEGSA00B14 | V.RESISTOR 10K          | 2   |         |          |              |                         |     |         |
| VR218    | EVMEGSA00B53 | V.RESISTOR 5K           | 1   |         |          |              |                         |     |         |
| VR219    | EVMEGSA00B14 | V.RESISTOR 10K          | 1   |         |          |              |                         |     |         |
| VR401,02 | EVMEASA00B13 | V.RESISTOR 1K           | 2   |         |          |              |                         |     |         |
| VR501,02 | EVMEGSA00B23 | V.RESISTOR 2K           | 2   |         |          |              |                         |     |         |
| VR503    | EVMEASA00B53 | V.RESISTOR 5K           | 1   |         |          |              |                         |     |         |

## MODULES

- Block Diagrams
- Schematic Diagrams
- Printed Circuit Boards

This section provides the block diagrams, schematic diagrams and printed circuit boards.

### N o t e :

1. Do not use the part numbers shown on the schematic diagram or P.C.Board layout for ordering.  
The correct part number for ordering is shown in the Exploded View/Parts List section.
2. Unless otherwise specified, all resistors are in OHMS, K = 1,000 OHMS, all capacitors are in MICROFARADS (uF), P = uuF.
3. The foil patterns on the P.C.Board layout, printed with the blue color is the component side.
4. Please refer to the Electrical Parts List for the value and existence of component parts on the P.C.Board.



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## BLOCK DIAGRAM

|  |        |
|--|--------|
| OVER ALL BLOCK DIAGRAM(AU-65H) .....               | BLK-1  |
| W1(TBC & SYNC GEN) BLOCK DIAGRAM1/3(NTSC) .....    | BLK-2  |
| W1(TBC & SYNC GEN) BLOCK DIAGRAM1/3(PAL) .....     | BLK-3  |
| W1(TBC & SYNC GEN) BLOCK DIAGRAM2/3 .....          | BLK-4  |
| W1(TBC & SYNC GEN) BLOCK DIAGRAM3/3 .....          | BLK-5  |
| W4(DEC & CTCM) BLOCK DIAGRAM1/4(AU-65H NTSC) ..... | BLK-6  |
| W4(DEC & CTCM) BLOCK DIAGRAM2/4(AU-65H NTSC) ..... | BLK-7  |
| W4(DEC & CTCM) BLOCK DIAGRAM3/4(AU-65H NTSC) ..... | BLK-8  |
| W4(DEC & CTCM) BLOCK DIAGRAM4/4(AU-65H NTSC) ..... | BLK-9  |
| W4(DECODER) BLOCK DIAGRAM1/4(AU-65H PAL) .....     | BLK-10 |
| W4(DECODER) BLOCK DIAGRAM2/4(AU-65H PAL) .....     | BLK-11 |
| W4(DECODER) BLOCK DIAGRAM3/4(AU-65H PAL) .....     | BLK-12 |
| W4(DECODER) BLOCK DIAGRAM4/4(AU-65H PAL) .....     | BLK-13 |
| SENC & P IN P BLOCK DIAGRAM1/2(AU-65H) .....       | BLK-14 |
| SENC & P IN P BLOCK DIAGRAM2/2(AU-65H) .....       | BLK-15 |
| W6(AUDIO) BLOCK DIAGRAM1/3 .....                   | BLK-16 |
| W6(AUDIO) BLOCK DIAGRAM2/3 .....                   | BLK-17 |
| W6(AUDIO) BLOCK DIAGRAM3/3 .....                   | BLK-18 |
| B1(SYSTEM CONTROL) BLOCK DIAGRAM1/3 .....          | BLK-19 |
| B1(SYSTEM CONTROL) BLOCK DIAGRAM2/3 .....          | BLK-20 |
| B1(SYSTEM CONTROL) BLOCK DIAGRAM3/3 .....          | BLK-21 |
| FRONT PANEL A,B BLOCK DIAGRAM(AU-65H) .....        | BLK-22 |
| VIDEO I/O BLOCK DIAGRAM1/2 .....                   | BLK-23 |
| VIDEO I/O BLOCK DIAGRAM2/2 .....                   | BLK-24 |

## SCHEMATIC DIAGRAM

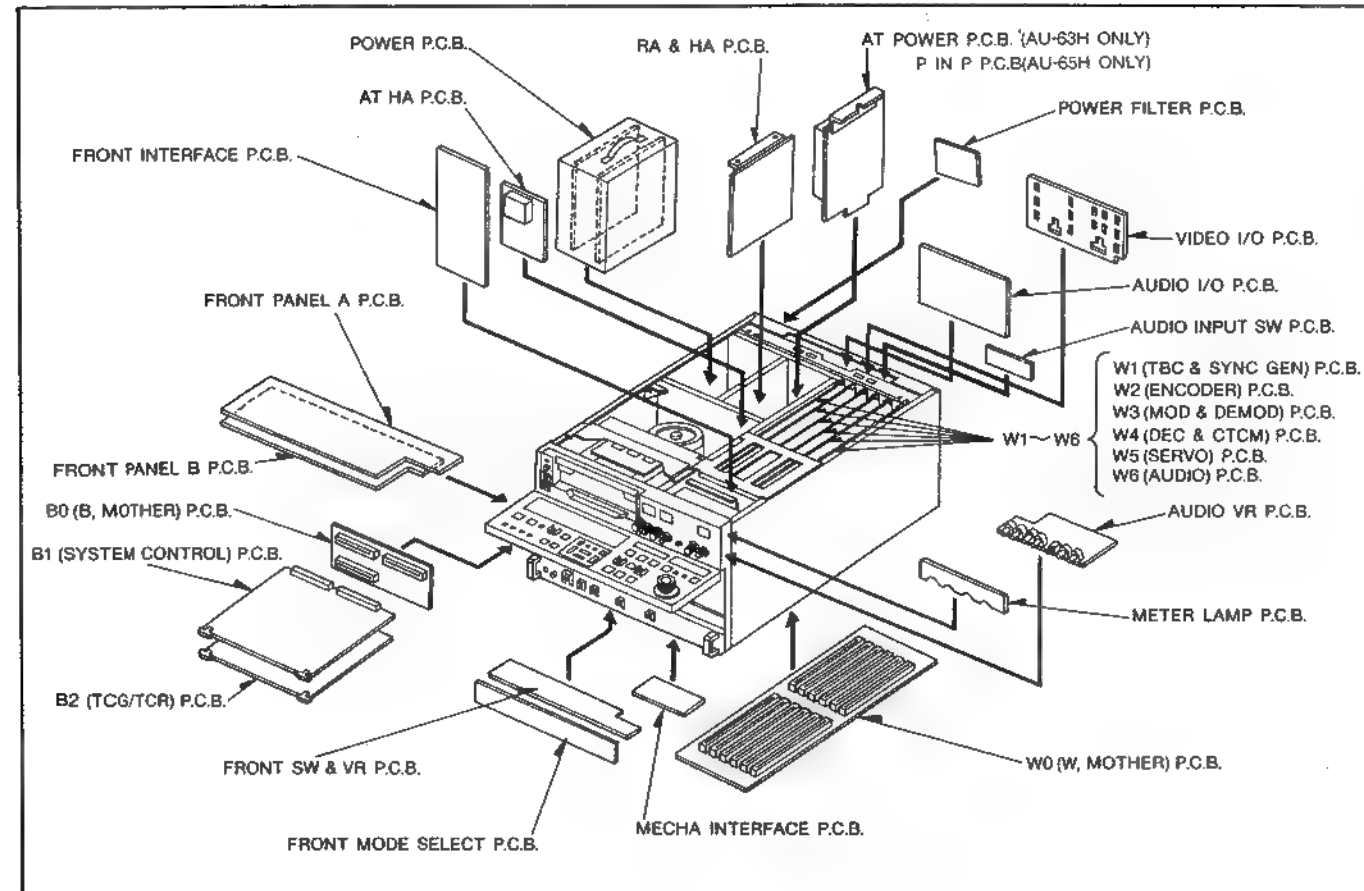
|   |       |
|---|-------|
| INTERCONNECTION1/4 .....                      | SCM-1 |
| INTERCONNECTION2/4 .....                      | SCM-1 |
| INTERCONNECTION3/4 .....                      | SCM-2 |
| INTERCONNECTION4/4 .....                      | SCM-2 |
| W0(W,MOTHER) SCHEMATIC DIAGRAM1/4 .....       | SCM-3 |
| W0(W,MOTHER) SCHEMATIC DIAGRAM2/4 .....       | SCM-3 |
| W0(W,MOTHER) SCHEMATIC DIAGRAM3/4 .....       | SCM-4 |
| W0(W,MOTHER) SCHEMATIC DIAGRAM4/4 .....       | SCM-4 |
| W1(TBC & SYNC GEN) SCHEMATIC DIAGRAM1/6 ..... | SCM-5 |
| W1(TBC & SYNC GEN) SCHEMATIC DIAGRAM2/6 ..... | SCM-5 |
| W1(TBC & SYNC GEN) SCHEMATIC DIAGRAM3/6 ..... | SCM-6 |
| W1(TBC & SYNC GEN) SCHEMATIC DIAGRAM4/6 ..... | SCM-6 |
| W1(TBC & SYNC GEN) SCHEMATIC DIAGRAM5/6 ..... | SCM-7 |
| W1(TBC & SYNC GEN) SCHEMATIC DIAGRAM6/6 ..... | SCM-7 |

|   |        |
|---|--------|
| W2(ENCODER) SCHEMATIC DIAGRAM1/4(NTSC) .....        | SCM-8  |
| W2(ENCODER) SCHEMATIC DIAGRAM2/4(NTSC) .....        | SCM-8  |
| W2(ENCODER) SCHEMATIC DIAGRAM3/4(NTSC) .....        | SCM-9  |
| W2(ENCODER) SCHEMATIC DIAGRAM4/4(AU-65H PAL) .....  | SCM-9  |
| W4(DECODER) SCHEMATIC DIAGRAM1/4(AU-65H NTSC) ..... | SCM-10 |
| W4(DECODER) SCHEMATIC DIAGRAM2/4(AU-65H NTSC) ..... | SCM-10 |
| W4(DECODER) SCHEMATIC DIAGRAM3/4(AU-65H NTSC) ..... | SCM-11 |
| W4(DECODER) SCHEMATIC DIAGRAM4/4(AU-65H NTSC) ..... | SCM-11 |
| W4(DECODER) SCHEMATIC DIAGRAM1/4 (AU-65H PAL) ..... | SCM-12 |
| W4(DECODER) SCHEMATIC DIAGRAM2/4(AU-65H PAL) .....  | SCM-12 |
| W4(DECODER) SCHEMATIC DIAGRAM3/4(AU-65H PAL) .....  | SCM-13 |
| W4(DECODER) SCHEMATIC DIAGRAM4/4(AU-65H PAL) .....  | SCM-13 |
| SENC & P IN P SCHEMATIC DIAGRAM1/2(AU-65H) .....    | SCM-14 |
| SENC & P IN P SCHEMATIC DIAGRAM2/2(AU-65H) .....    | SCM-14 |
| W6(AUDIO) SCHEMATIC DIAGRAM1/4 .....                | SCM-15 |
| W6(AUDIO) SCHEMATIC DIAGRAM2/4 .....                | SCM-15 |
| W6(AUDIO) SCHEMATIC DIAGRAM3/4 .....                | SCM-16 |
| W6(AUDIO) SCHEMATIC DIAGRAM4/4 .....                | SCM-16 |
| BO(B,MOTHER) SCHEMATIC DIAGRAM1/2 .....             | SCM-17 |
| BO(B,MOTHER) SCHEMATIC DIAGRAM2/2 .....             | SCM-17 |
| B1(SYSTEM CONTROL) SCHEMATIC DIAGRAM1/5 .....       | SCM-18 |
| B1(SYSTEM CONTROL) SCHEMATIC DIAGRAM2/5 .....       | SCM-18 |
| B1(SYSTEM CONTROL) SCHEMATIC DIAGRAM3/5 .....       | SCM-19 |
| B1(SYSTEM CONTROL) SCHEMATIC DIAGRAM4/5 .....       | SCM-19 |
| B1(SYSTEM CONTROL) SCHEMATIC DIAGRAM5/5 .....       | SCM-20 |
| VIDEO I/O SCHEMATIC DIAGRAM .....                   | SCM-20 |
| AUDIO I/O SCHEMATIC DIAGRAM1/2 .....                | SCM-21 |
| AUDIO I/O SCHEMATIC DIAGRAM2/2 .....                | SCM-21 |
| FRONT INTERFACE SCHEMATIC DIAGRAM(NTSC) .....       | SCM-22 |
| FRONT INTERFACE SCHEMATIC DIAGRAM(PAL) .....        | SCM-22 |
| FRONT PANEL A SCHEMATIC DIAGRAM1/2 .....            | SCM-23 |
| FRONT PANEL A SCHEMATIC DIAGRAM2/2 .....            | SCM-23 |
| FRONT PANEL B SCHEMATIC DIAGRAM1/2 .....            | SCM-24 |
| FRONT PANEL B SCHEMATIC DIAGRAM2/2 .....            | SCM-24 |

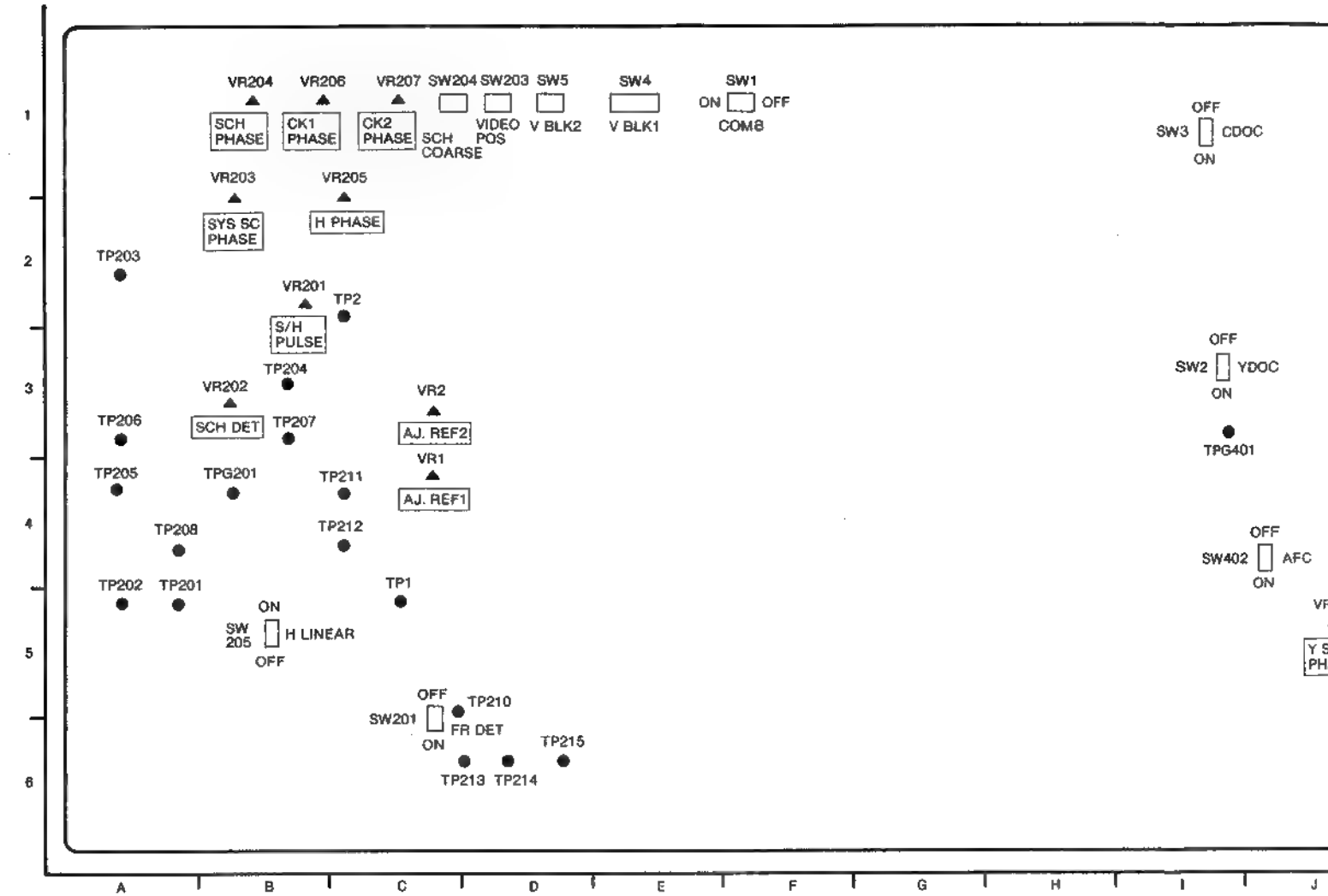


# ① LOCATION OF TEST POINTS & CONTROLS (W1, W4)

P.C. Board Location



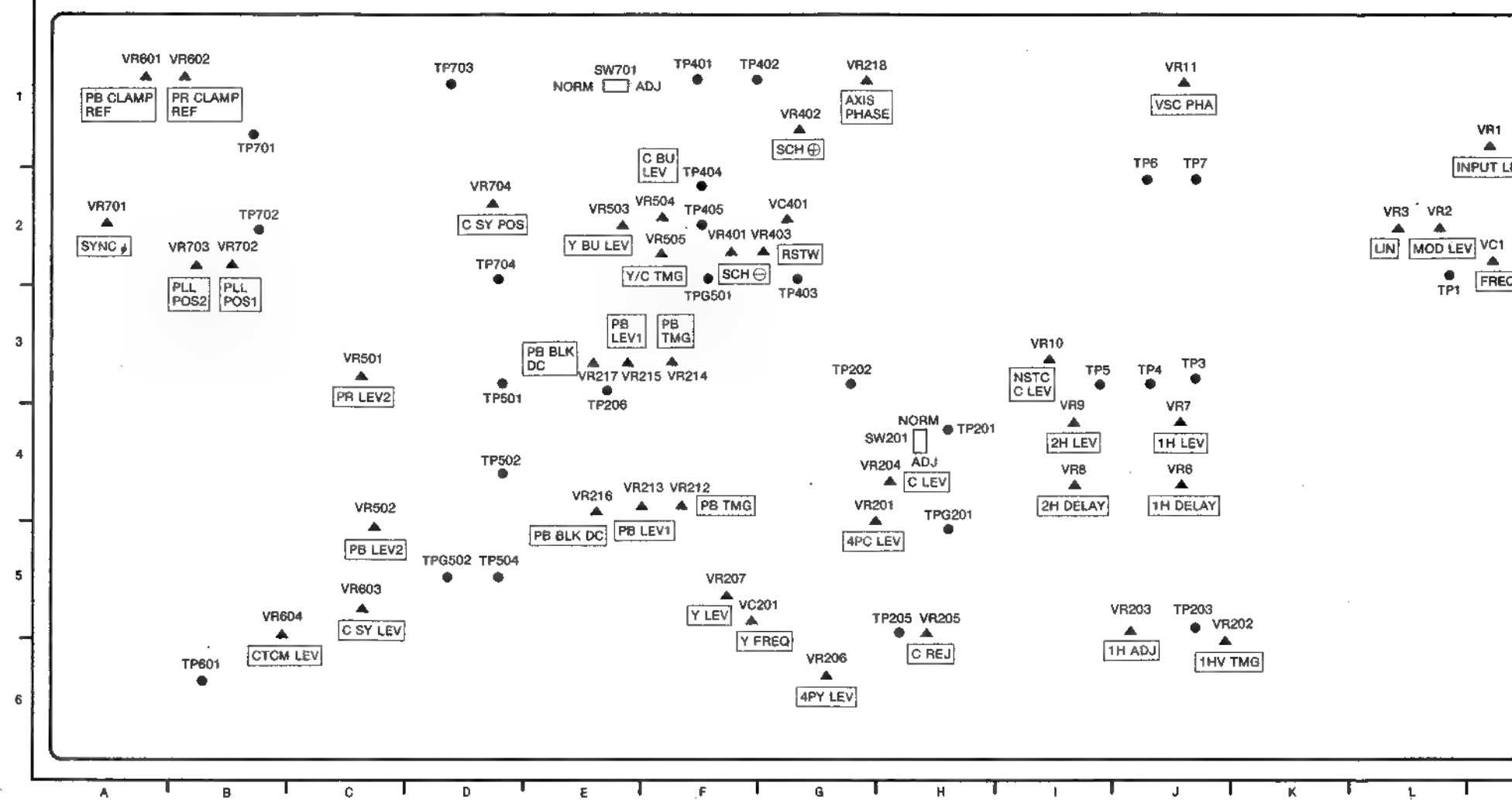
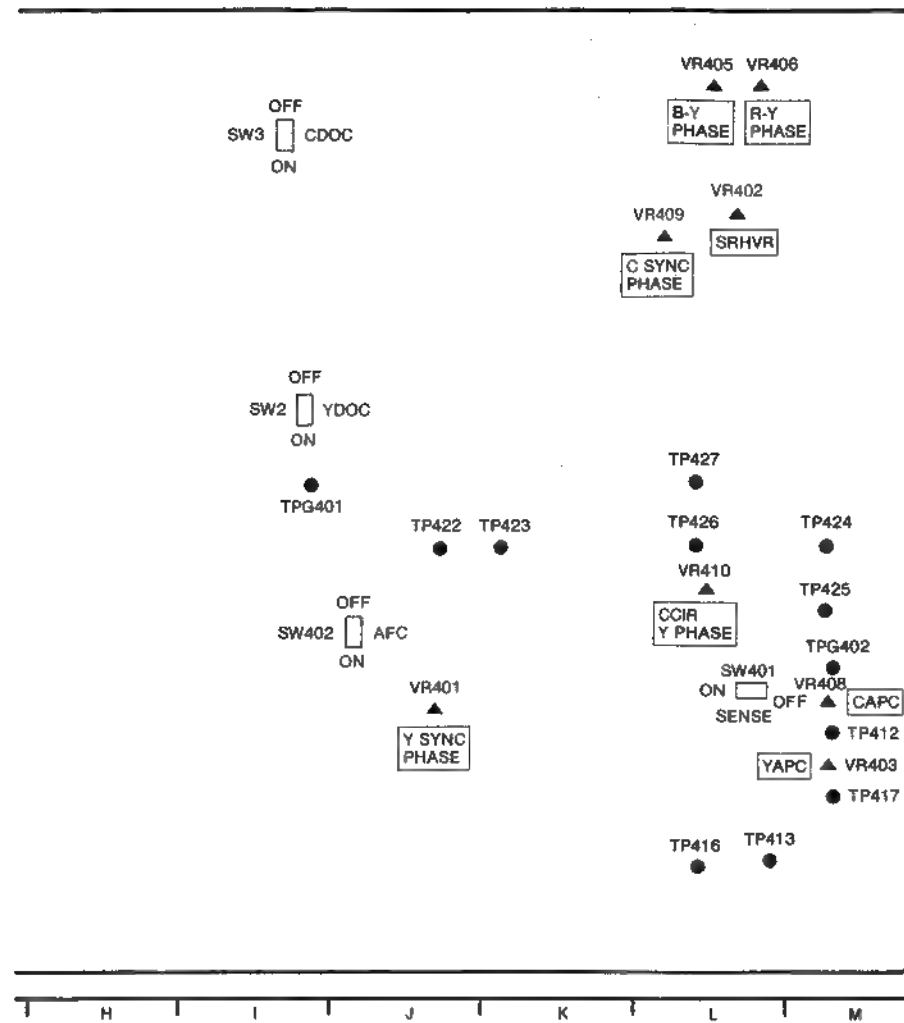
## W1 TBC & SYNC GEN P.C.B.



| AU-65H W1 TBC & SYNC |     |           |     |           |     |           |     |           |  |
|----------------------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|--|
| ADJUSTMENT           |     | TESTPOINT |     | TESTPOINT |     | TESTPOINT |     | TESTPOINT |  |
| VR1                  | C-4 | VR405     | L-1 | TP1       | C-5 | TP212     | C-4 | TP427     |  |
| VR2                  | C-3 | VR406     | L-1 | TP2       | C-2 | TP213     | D-6 | TPG201    |  |
| VR201                | B-2 | VR408     | M-5 | TP201     | A-5 | TP214     | D-6 | TPG401    |  |
| VR202                | B-3 | VR409     | L-2 | TP202     | A-5 | TP215     | D-6 | TPG402    |  |
| VR203                | B-2 | VR410     | L-4 | TP203     | A-2 | TP412     | M-5 | SW1       |  |
| VR204                | B-1 |           |     | TP204     | B-3 | TP413     | L-6 |           |  |
| VR205                | C-2 |           |     | TP205     | A-4 | TP416     | L-6 | SW2       |  |
| VR206                | B-1 |           |     | TP206     | A-3 | TP417     | M-5 | SW3       |  |
| VR207                | C-1 |           |     | TP207     | B-3 | TP422     | J-4 | SW4       |  |
| VR401                | J-5 |           |     | TP208     | A-4 | TP423     | K-4 | SW5       |  |
| VR402                | L-2 |           |     | TP210     | C-5 | TP424     | M-4 | SW6       |  |
| VR403                | M-5 |           |     | TP211     | C-4 | TP425     | M-4 | SW7       |  |
|                      |     |           |     |           |     | TP426     | L-4 |           |  |

ADDRESS INFORMATION

# W4 DECODER/CTCM P.C.B.



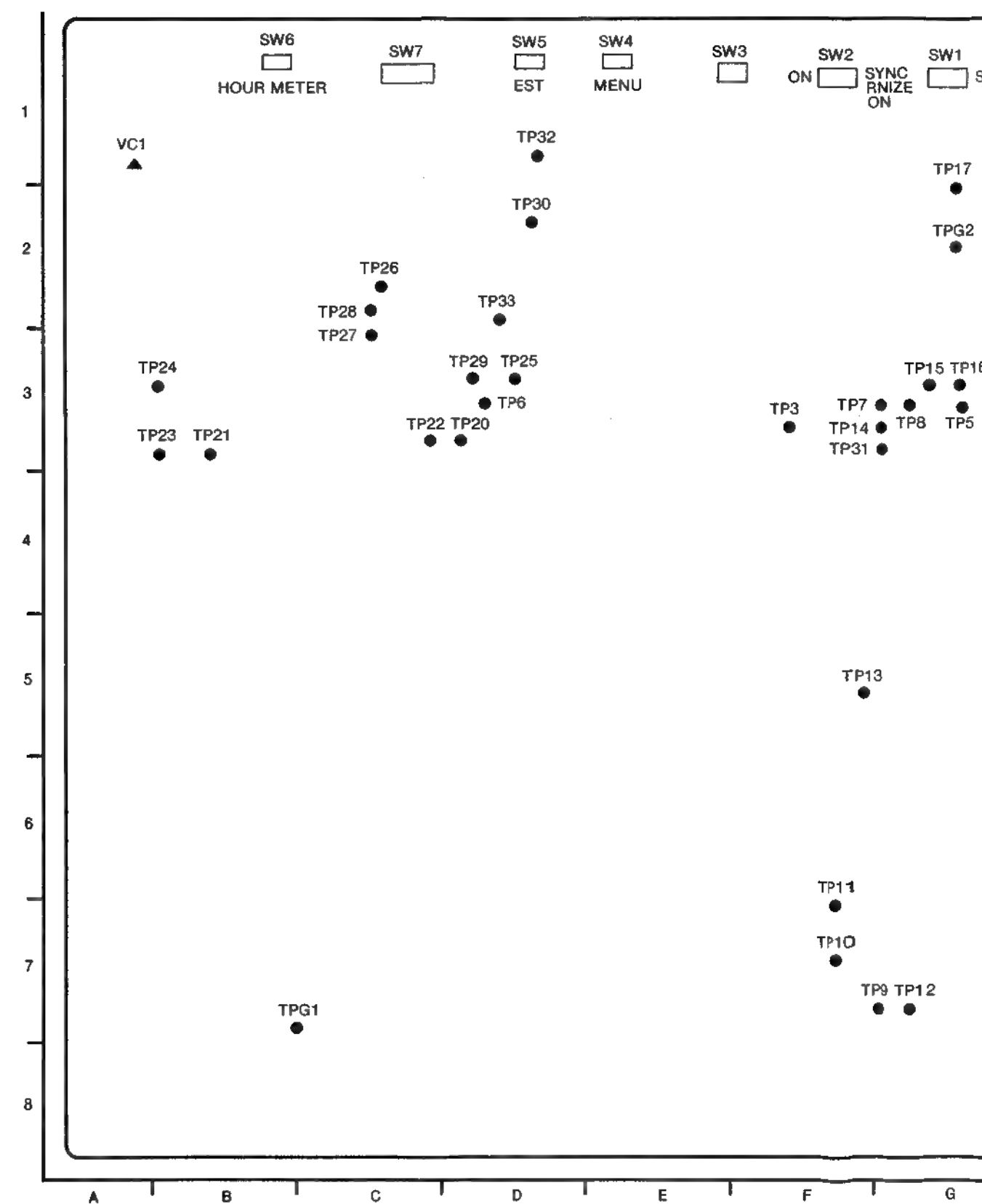
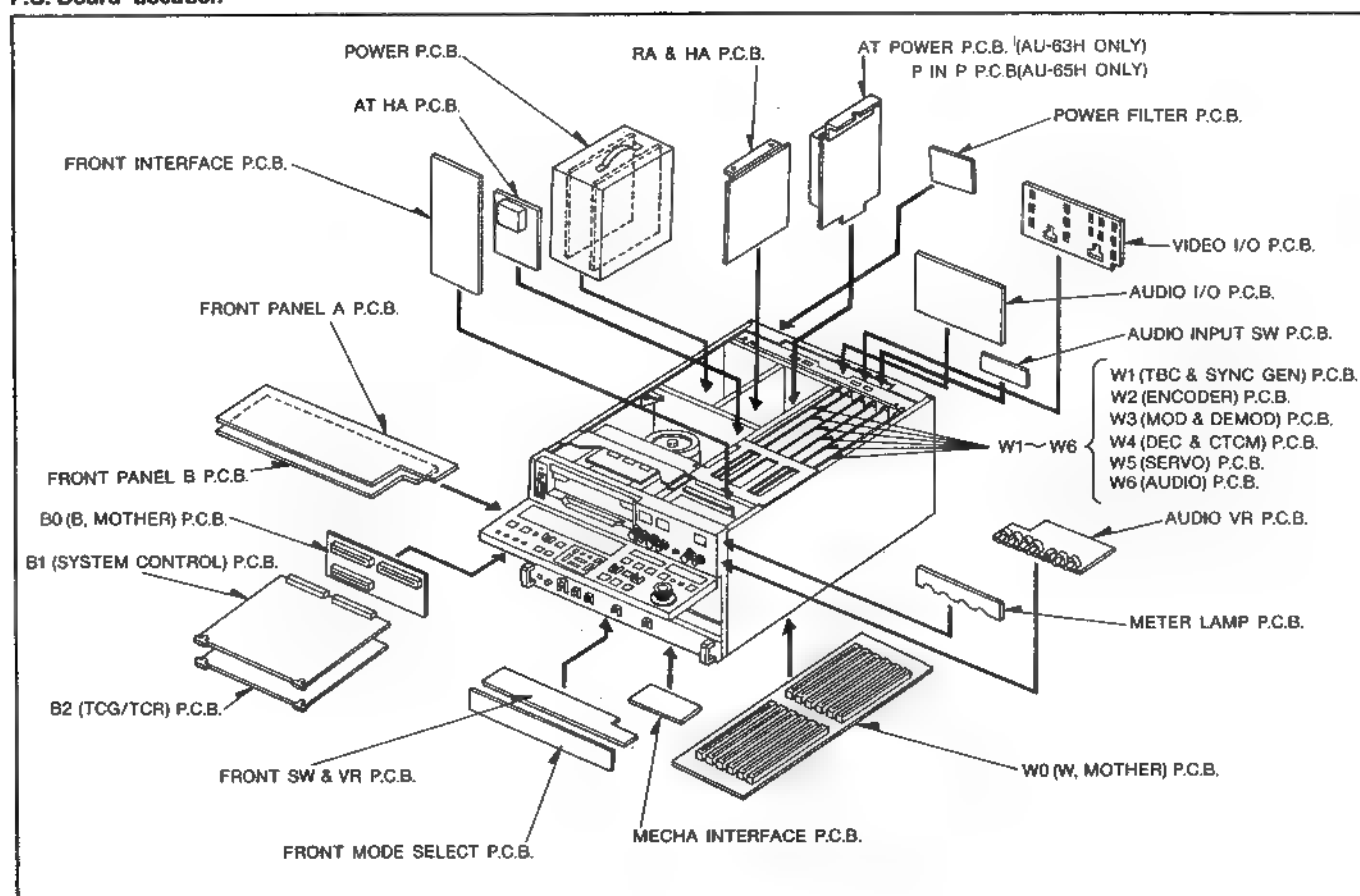
| BC & SYNC |     |        |     |       |     |
|-----------|-----|--------|-----|-------|-----|
| TP212     | C-4 | TP427  | L-3 | SW8   | D-1 |
| TP213     | D-6 | TPG201 | B-4 | SW201 | C-5 |
| TP214     | D-6 | TPG401 | I-3 | SW203 | D-1 |
| TP215     | D-6 | TPG402 | M-5 | SW204 | C-1 |
| TP412     | M-5 | SWITCH |     | SW205 | B-5 |
| TP413     | L-6 | SW1    | F-1 | SW401 | L-5 |
| TP416     | L-6 | SW2    | I-3 | SW402 | J-4 |
| TP417     | M-5 | SW3    | I-1 |       |     |
| TP422     | J-4 | SW4    | E-1 |       |     |
| TP423     | K-4 | SW5    | D-1 |       |     |
| TP424     | M-4 | SW6    | D-1 |       |     |
| TP425     | M-4 | SW7    | D-1 |       |     |
| TP426     | L-4 |        |     |       |     |

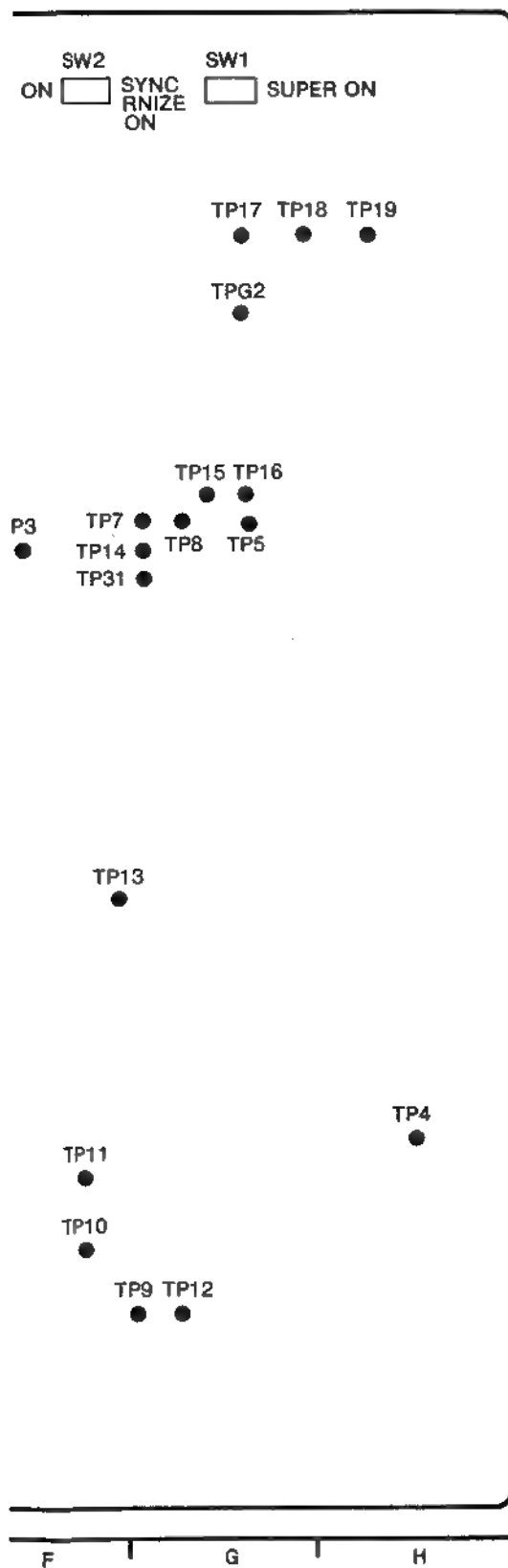
| AU-65H W4 DECODER/CTCM |     |       |     |       |     |           |     |       |     |        |     |
|------------------------|-----|-------|-----|-------|-----|-----------|-----|-------|-----|--------|-----|
| ADJUSTMENT             |     | VR201 | G-4 | VR218 | G-1 | VR701     | A-2 | TP203 | J-5 | TP701  | I-1 |
| VC1                    | M-2 | VR202 | J-5 | VR401 | F-2 | VR702     | B-2 | TP204 | I-6 | TP702  | I-2 |
| VC201                  | F-5 | VR203 | J-5 | VR402 | G-1 | VR703     | B-2 | TP205 | H-6 | TP703  | I-1 |
| VC401                  | G-2 | VR204 | H-4 | VR403 | G-2 | VR704     | D-2 | TP206 | E-3 | TP704  | I-2 |
| VR1                    | M-1 | VR205 | H-5 | VR501 | C-3 | TESTPOINT |     | TP401 | F-1 | TPG201 | I-5 |
| VR2                    | L-2 | VR206 | G-6 | VR502 | C-4 | TP1       | L-2 | TP402 | F-1 | TPG501 | I-2 |
| VR3                    | L-2 | VR207 | F-5 | VR503 | E-2 | TP3       | J-3 | TP403 | G-2 | TPG502 | I-5 |
| VR6                    | J-4 | VR212 | F-4 | VR504 | F-2 | TP4       | J-3 | TP404 | F-2 | SWITCH |     |
| VR7                    | J-4 | VR213 | E-4 | VR505 | F-2 | TP5       | I-3 | TP405 | F-2 | SW201  | I-4 |
| VR8                    | I-4 | VR214 | F-3 | VR601 | A-1 | TP6       | J-2 | TP501 | D-3 | SW701  | I-1 |
| VR9                    | I-4 | VR215 | E-3 | VR602 | B-1 | TP7       | J-2 | TP502 | D-4 |        |     |
| VR10                   | I-3 | VR216 | E-4 | VR603 | C-5 | TP201     | H-4 | TP504 | D-5 |        |     |
| VR11                   | J-1 | VR217 | E-3 | VR604 | B-5 | TP202     | G-3 | TP601 | B-6 |        |     |

ADDRESS INFORMATION

## ② LOCATION OF TEST POINTS & CONTROLS (B1, SENC)

P.C. Board Location

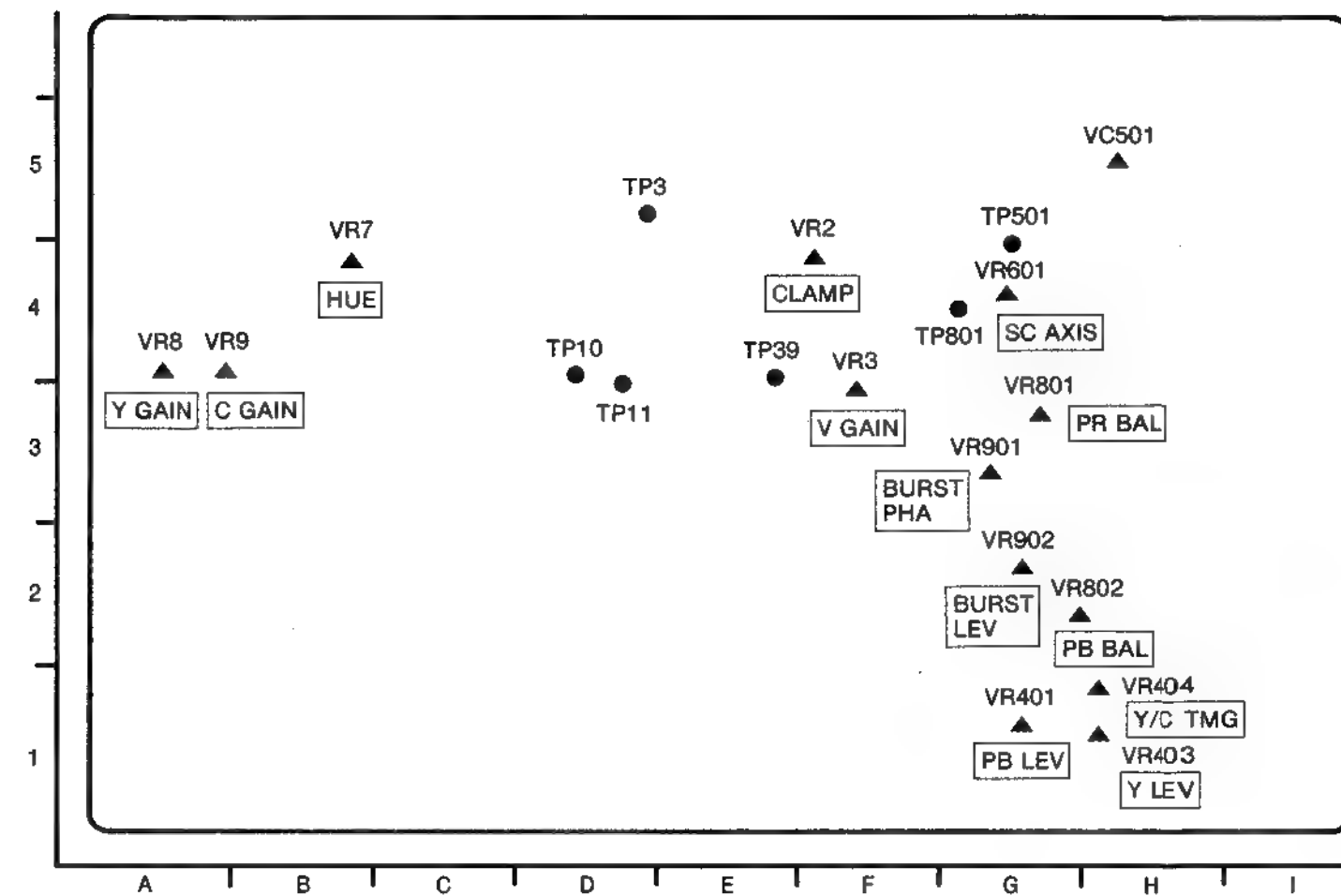




| AU-65H B1 SYSTEM CONTROL |     |
|--------------------------|-----|
| ADJUSTMENT               |     |
| VC1                      | A-1 |
| TESTPOINT                |     |
| TP3                      | F-3 |
| TP4                      | H-6 |
| TP5                      | G-3 |
| TP6                      | D-3 |
| TP7                      | G-3 |
| TP8                      | G-3 |
| TP9                      | G-7 |
| TP10                     | F-7 |
| TP11                     | F-7 |
| TP12                     | G-7 |
| TP13                     | F-5 |
| TP14                     | G-3 |
| TP15                     | G-3 |
| TP16                     | G-3 |
| TP17                     | G-2 |
| TP18                     | G-2 |
| TP19                     | H-2 |
| TP20                     | D-3 |
| TP21                     | B-3 |
| TP22                     | C-3 |
| TP23                     | B-3 |
| TP24                     | B-3 |
| TP25                     | D-3 |
| TP26                     | C-2 |
| TP27                     | C-3 |
| TP28                     | C-2 |
| TP29                     | D-3 |
| TP30                     | D-2 |
| TP31                     | G-3 |
| TP32                     | D-1 |
| TP33                     | D-2 |
| TPG1                     | C-7 |
| TPG2                     | G-2 |
| SWITCH                   |     |
| SW1                      | G-1 |
| SW2                      | F-1 |
| SW3                      | F-1 |
| SW4                      | E-1 |
| SW5                      | D-1 |
| SW6                      | A-1 |
| SW7                      | C-1 |

ADDRESS INFORMATION

## SENC & P IN P P.C.B.

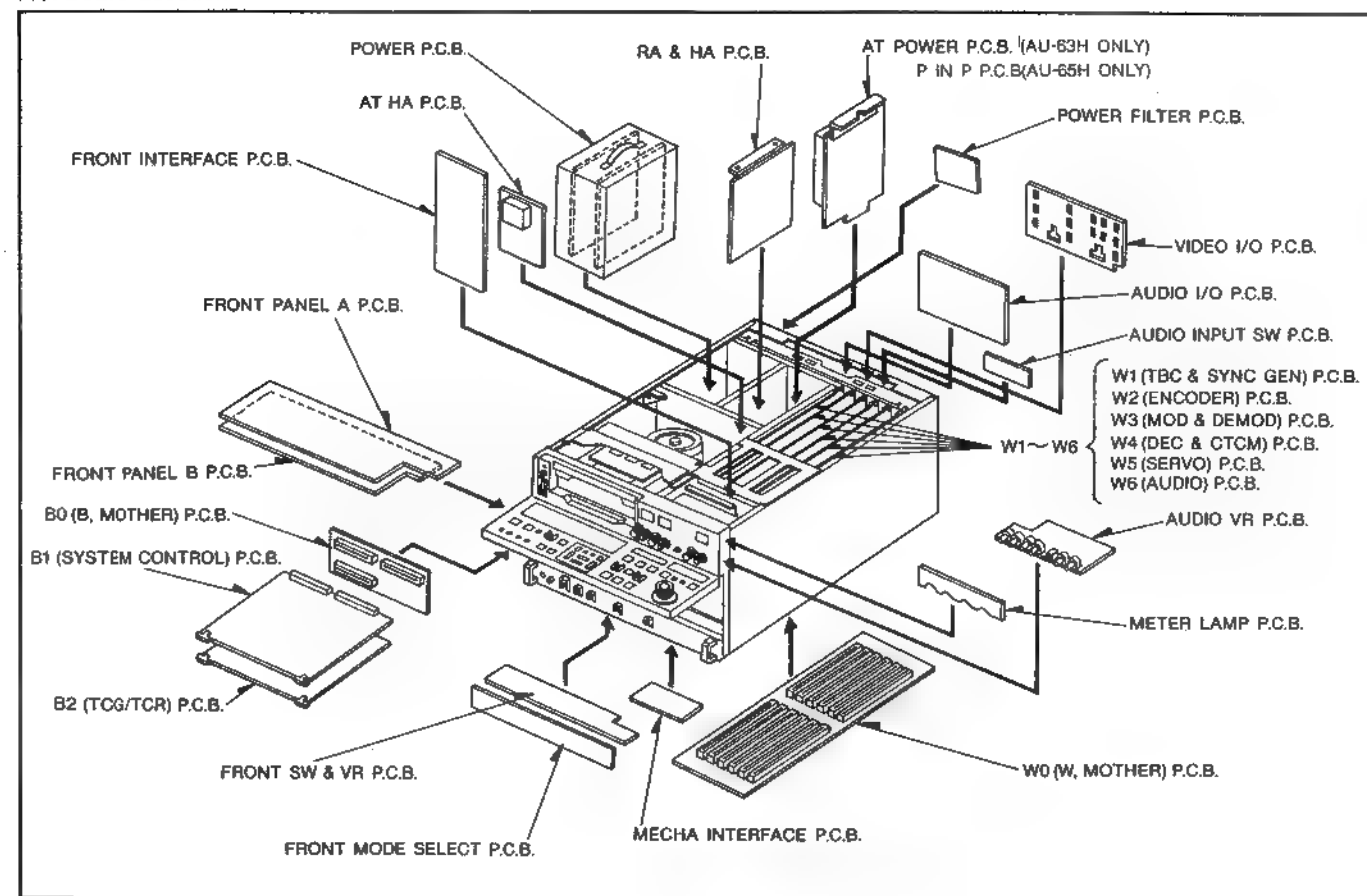


| AU-65H SENC & P IN P |     |       |     |
|----------------------|-----|-------|-----|
| ADJUSTMENT           |     | VR802 | H-2 |
| AC501                | H-5 | VR901 | G-3 |
| VR2                  | F-4 | VR902 | G-2 |
| TESTPOINT            |     |       |     |
| VR3                  | F-3 | TP3   | E-5 |
| VR7                  | H-4 | TP10  | D-4 |
| VR8                  | A-4 | TP11  | D-4 |
| VR9                  | A-4 | TP39  | E-4 |
| VR401                | G-1 | TP501 | G-5 |
| VR403                | H-1 | TP801 | G-4 |
| VR404                | H-1 |       |     |
| VR601                | G-4 |       |     |
| VR801                | G-3 |       |     |

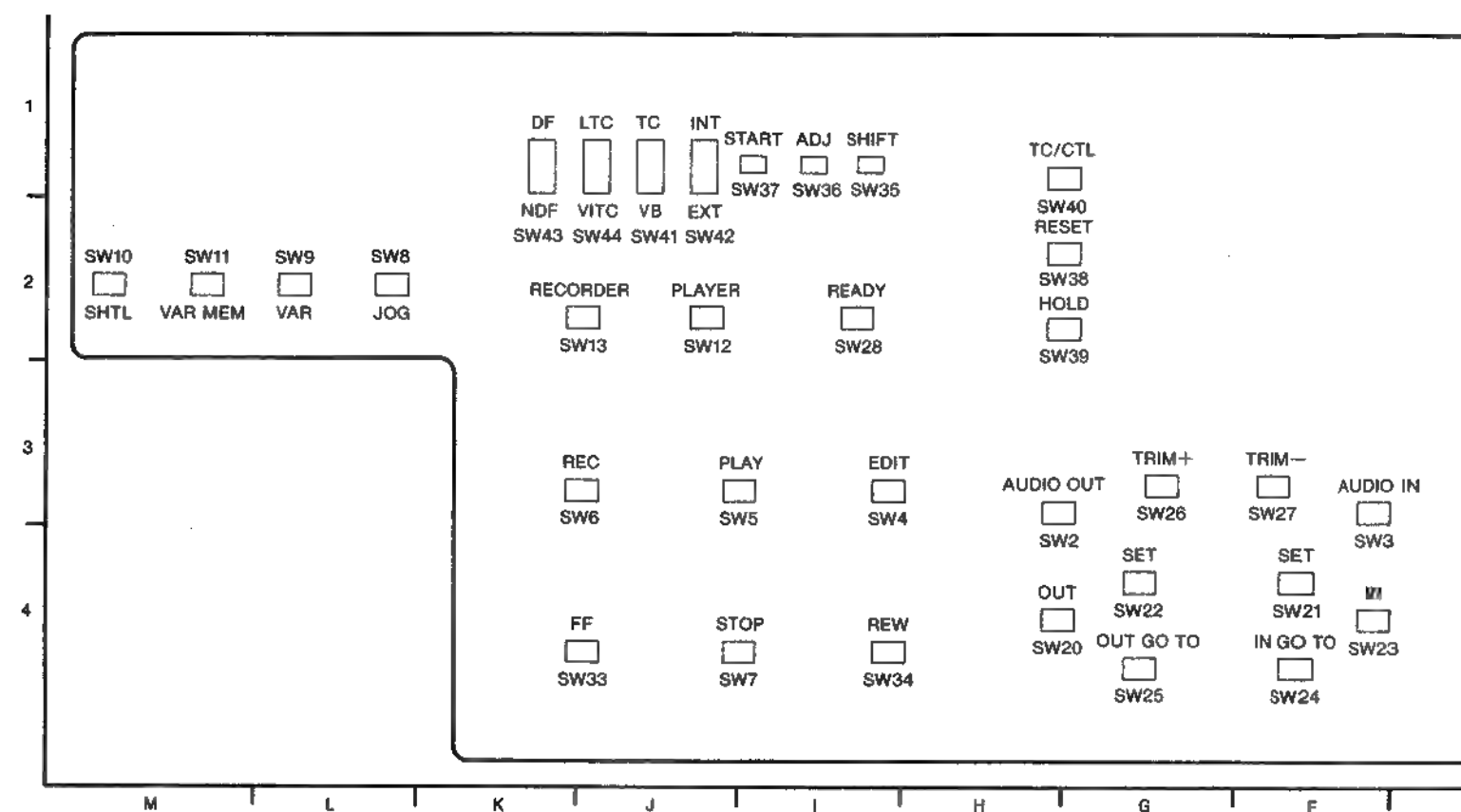
ADDRESS INFORMATION

### ③ LOCATION OF TEST POINTS & CONTROLS (FRONT A,B) (VIDEO I/O)

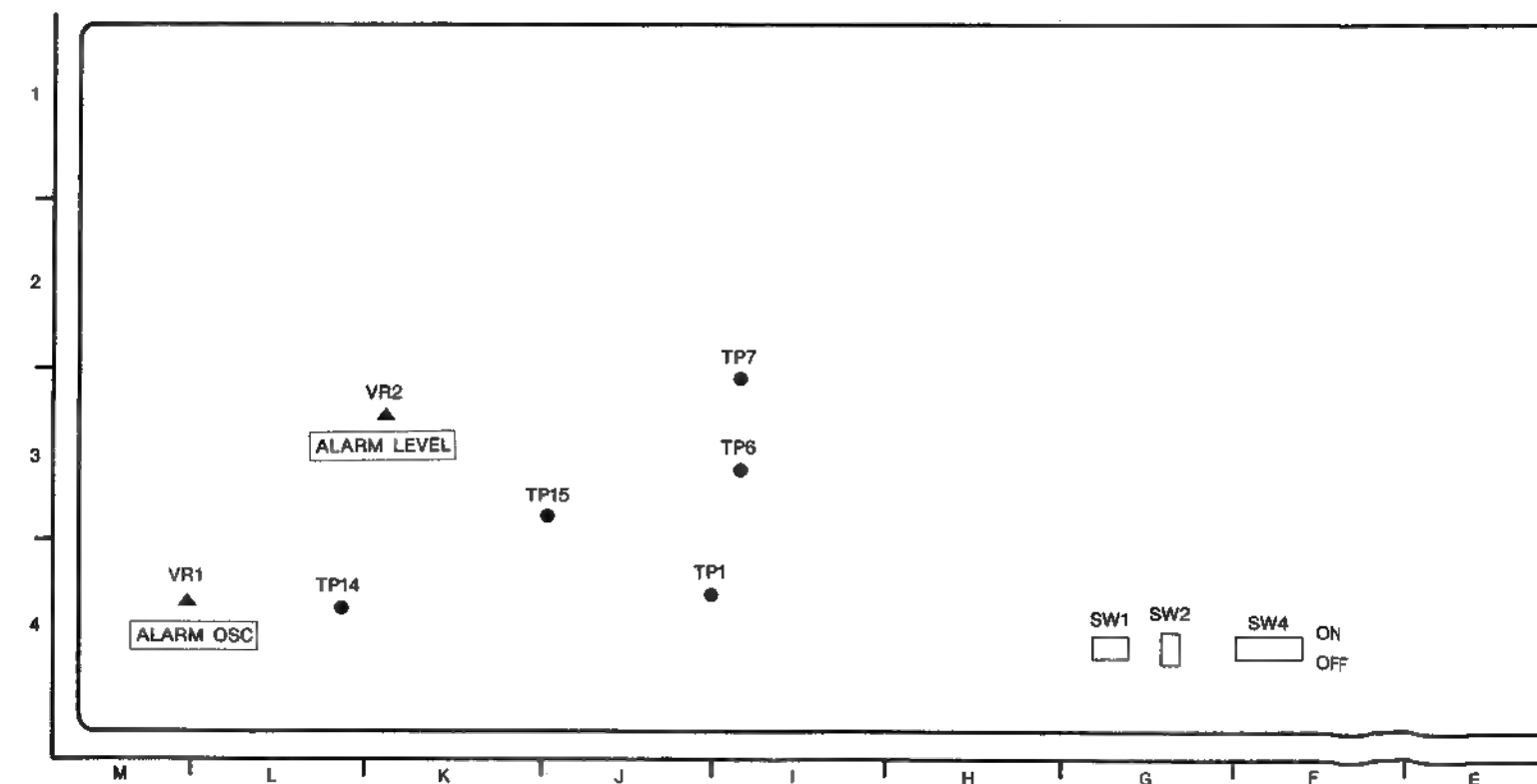
P.C. Board Location

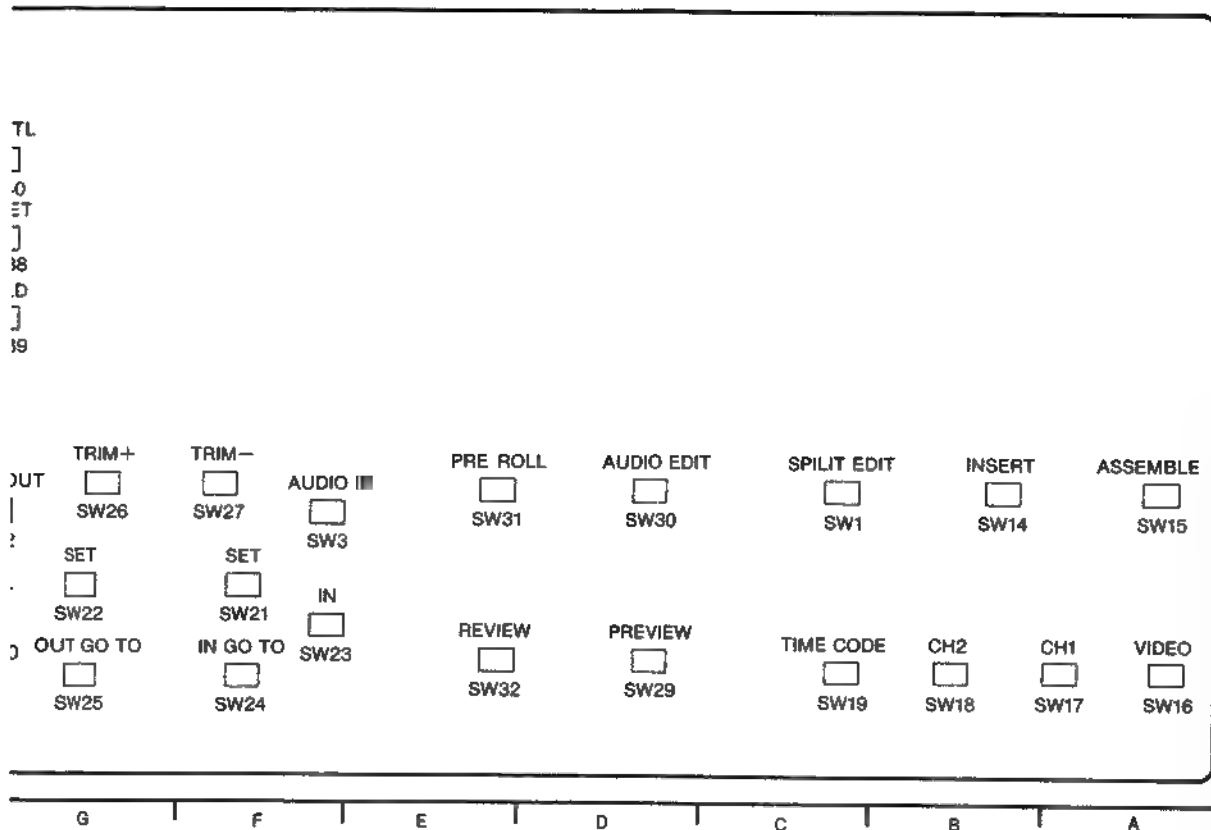


FRONT PANEL A P.C.B



FRONT PANEL B P.C.B



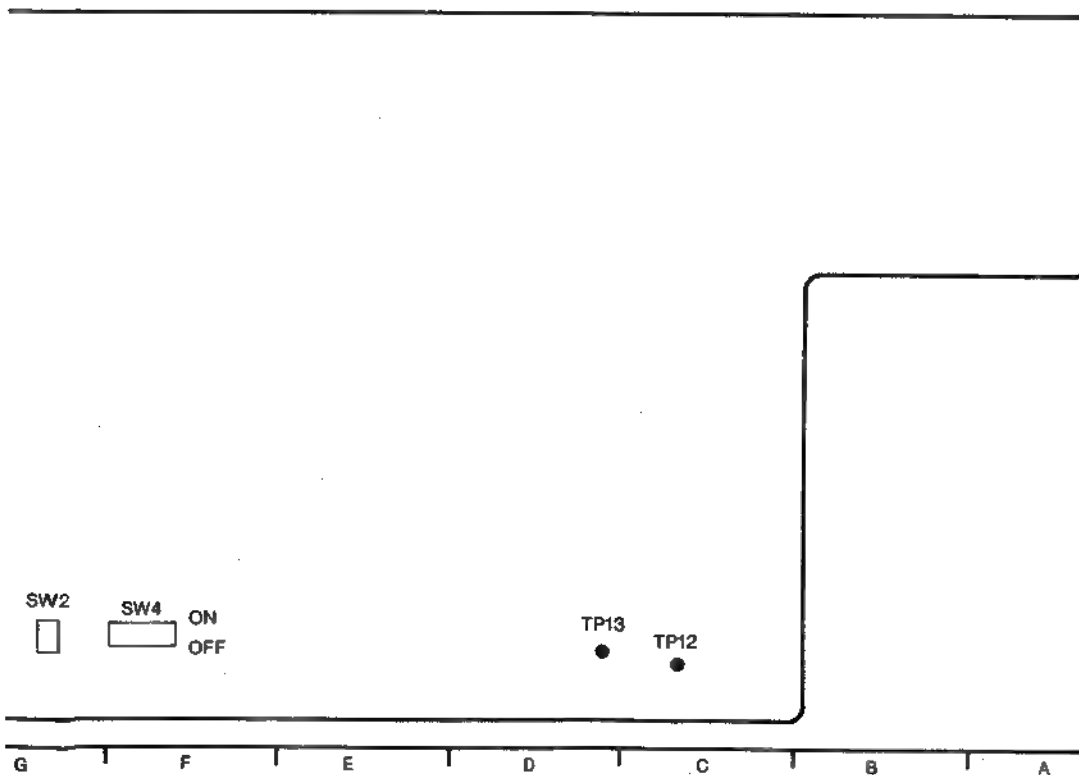


| AU-65H FRONT PANEL A |     |
|----------------------|-----|
| SWITCH               |     |
| SW1                  | C-3 |
| SW2                  | H-3 |
| SW3                  | F-3 |
| SW4                  | I-3 |
| SW5                  | J-3 |
| SW6                  | K-3 |
| SW7                  | J-4 |
| SW8                  | L-2 |
| SW9                  | L-2 |
| SW10                 | M-2 |
| SW11                 | M-2 |
| SW12                 | J-2 |
| SW13                 | K-2 |
| SW14                 | B-3 |
| SW15                 | A-3 |
| SW16                 | A-4 |
| SW17                 | A-4 |
| SW18                 | B-4 |
| SW19                 | C-4 |
| SW20                 | H-4 |
| SW21                 | F-4 |
| SW22                 | G-4 |
| SW23                 | F-4 |
| SW24                 | F-4 |
| SW25                 | G-4 |
| SW26                 | G-3 |
| SW27                 | F-3 |
| SW28                 | I-2 |
| SW29                 | D-4 |
| SW30                 | D-3 |
| SW31                 | E-3 |
| SW32                 | E-4 |
| SW33                 | J-4 |
| SW34                 | I-4 |
| SW35                 | I-1 |
| SW36                 | I-1 |
| SW37                 | I-1 |
| SW38                 | H-2 |
| SW39                 | H-2 |
| SW40                 | H-1 |
| SW41                 | J-1 |
| SW42                 | J-1 |
| SW43                 | K-1 |
| SW44                 | J-1 |

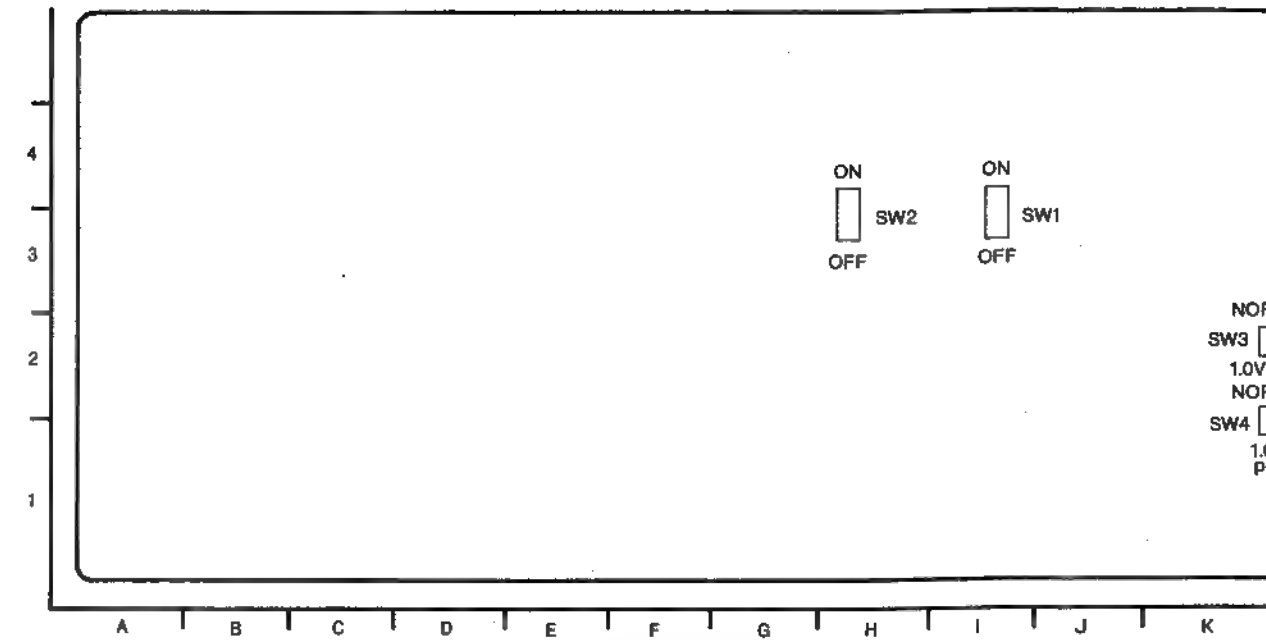
ADDRESS INFORMATION

| AU-65H FRONT PANEL III |     |
|------------------------|-----|
| ADJUSTMENT             |     |
| VR1                    | M-4 |
| VR2                    | L-3 |
| TESTPOINT              |     |
| TP1                    | J-4 |
| TP6                    | J-3 |
| TP7                    | J-2 |
| TP12                   | C-4 |
| TP13                   | D-4 |
| TP14                   | L-4 |
| TP15                   | K-3 |
| SWITCH                 |     |
| SW1                    | G-4 |
| SW2                    | G-4 |
| SW4                    | F-4 |

ADDRESS INFORMATION



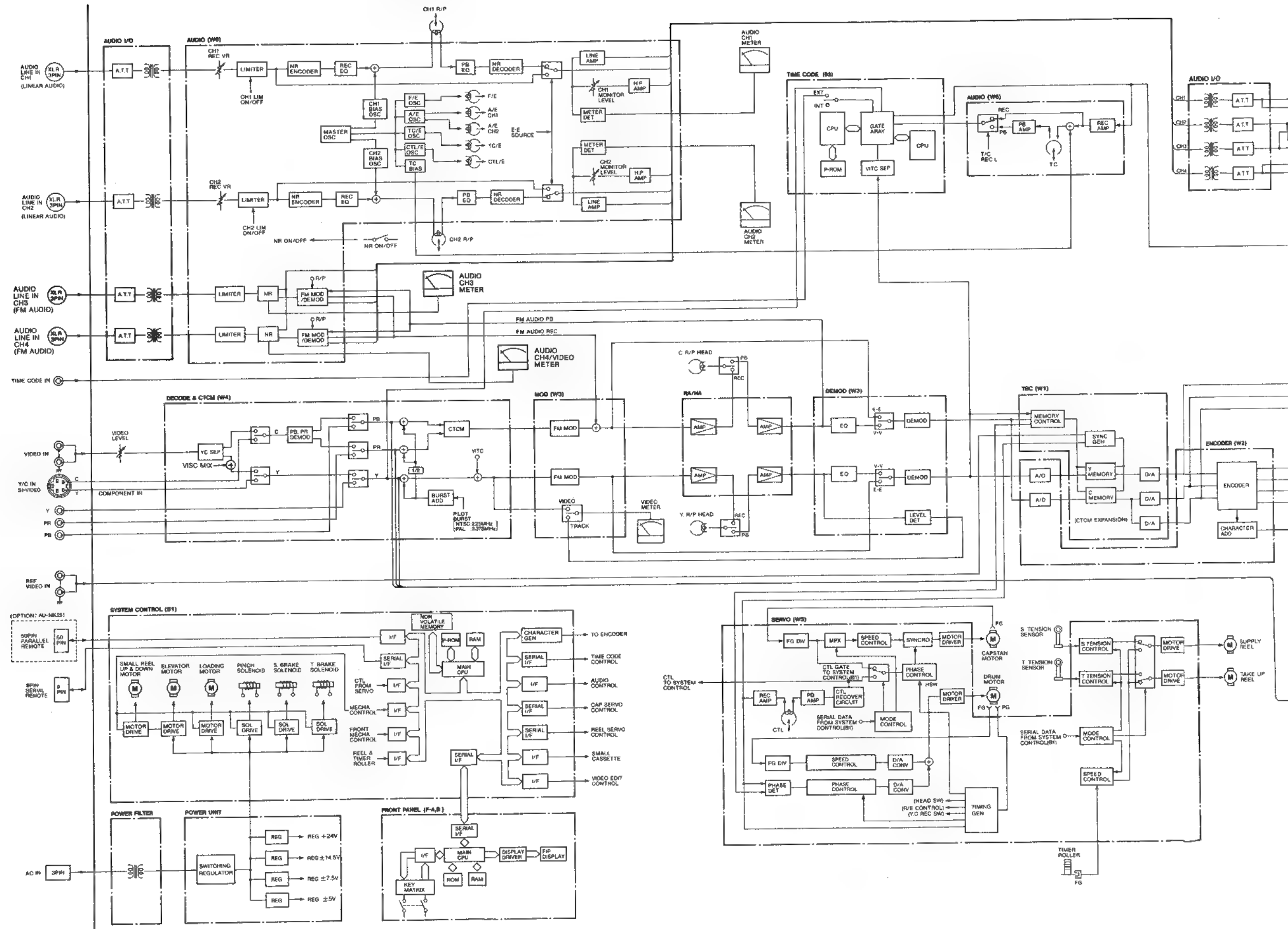
## VIDEO I/O P.C.B



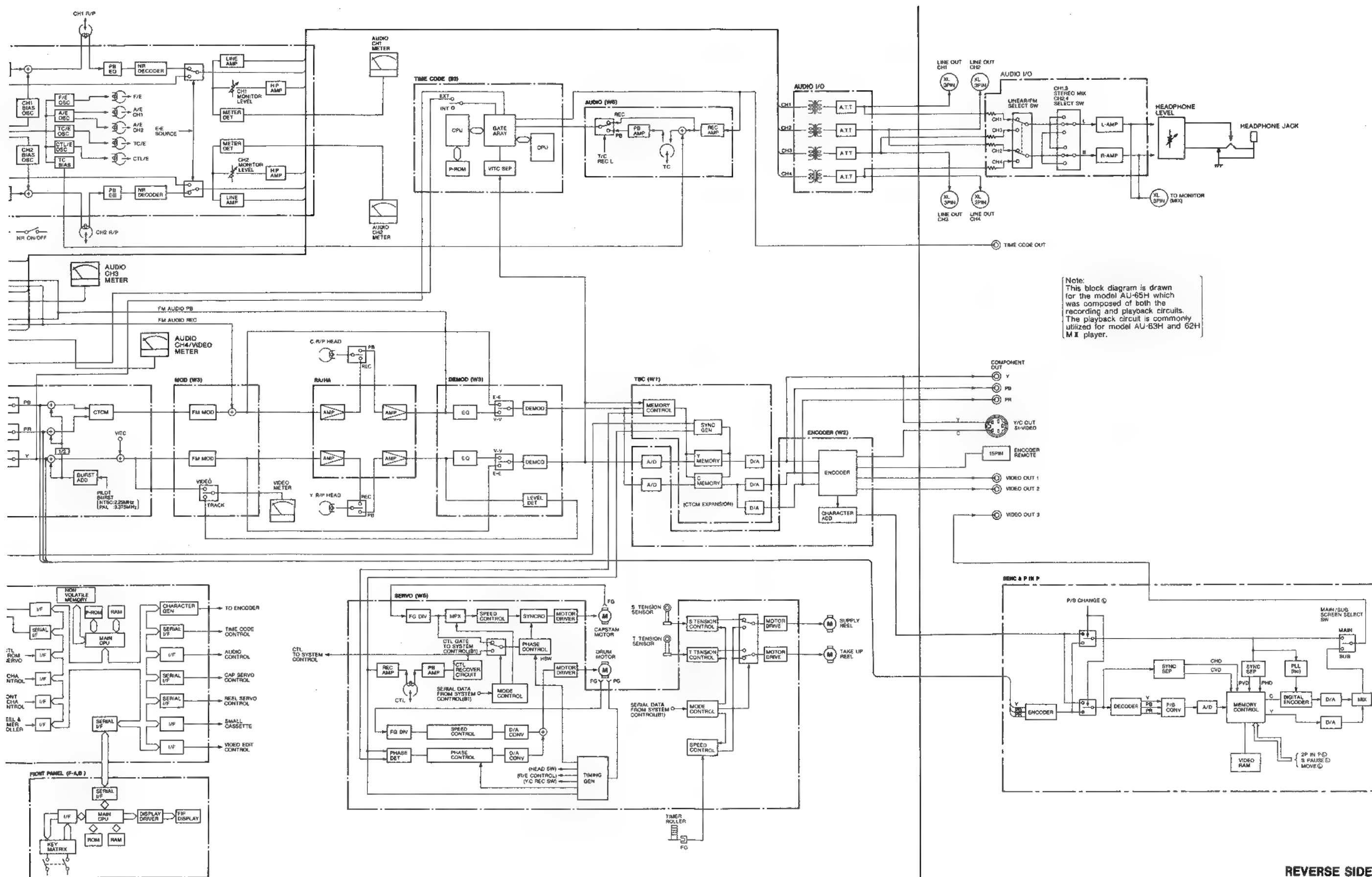
| AU-65H VIDEO I/O |     |
|------------------|-----|
| SWITCH           |     |
| SW1              | I-4 |
| SW2              | G-4 |
| SW3              | K-3 |
| SW4              | K-2 |

ADDRESS INFORMATION

# OVER ALL BLOCK DIAGRAM [FOR AU-65H]

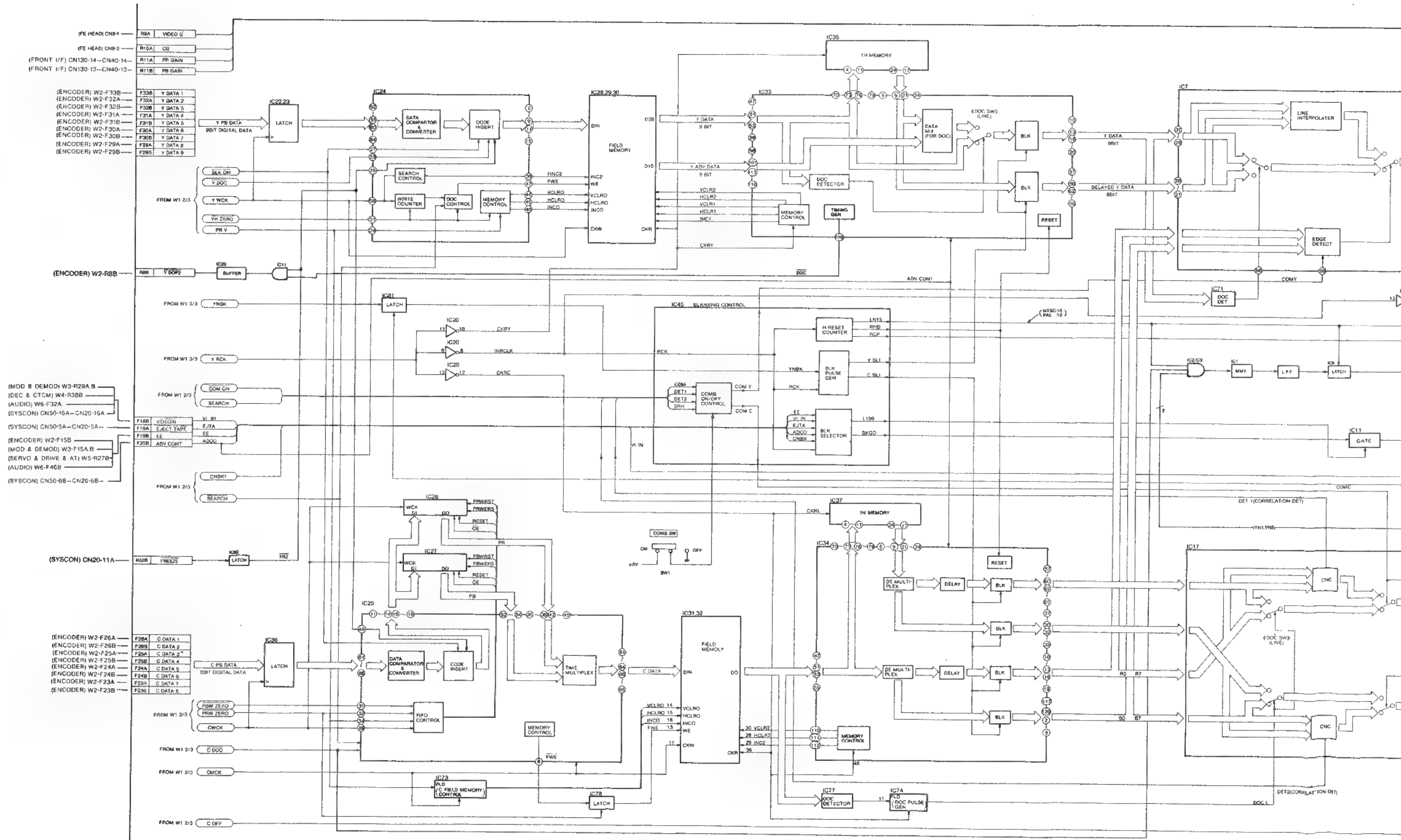


## AGRAM [FOR AU-65H]



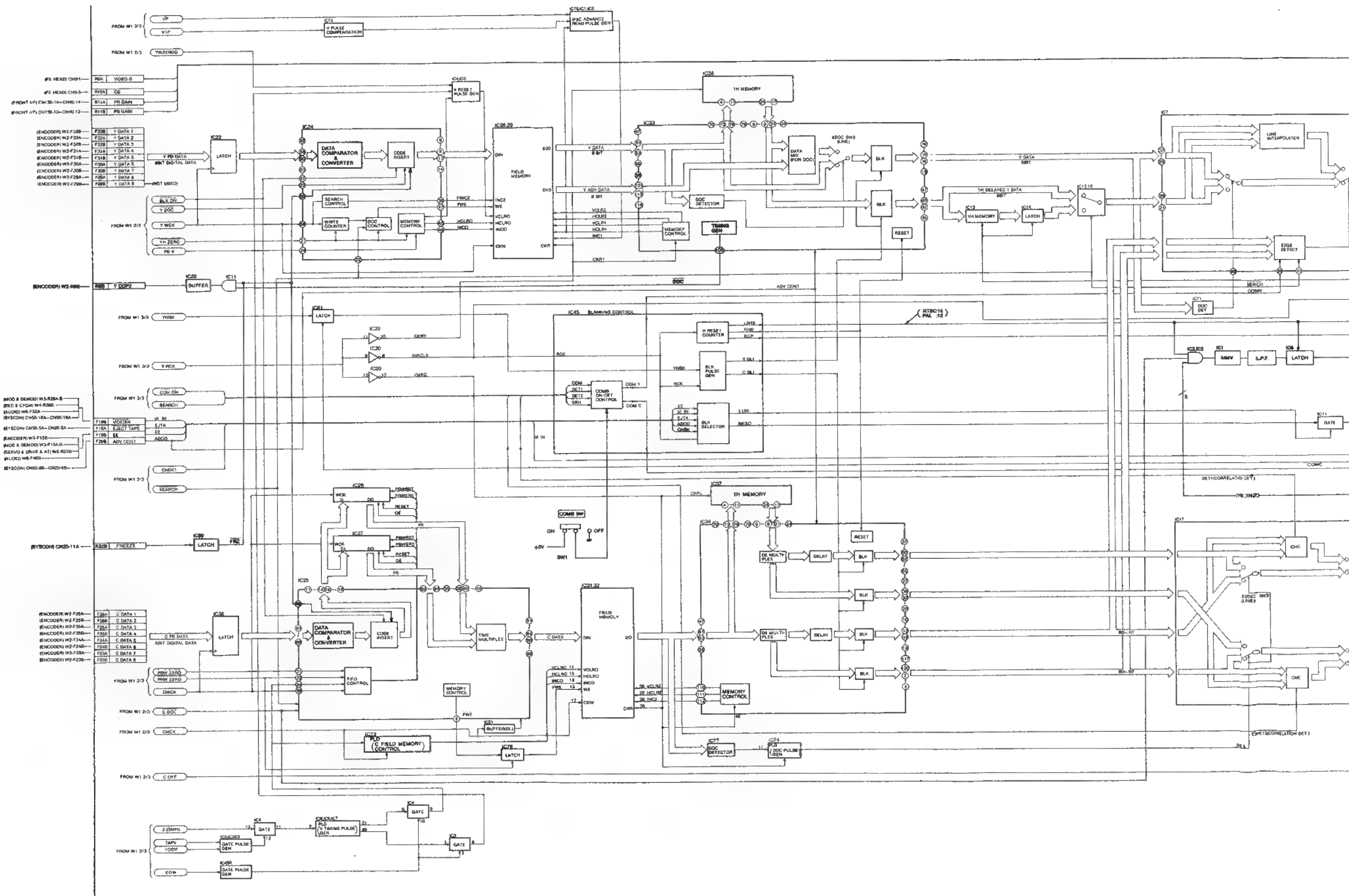


**W1(TBC & SYNC GEN) BLOCK DIAGRAM 1/3 (FIELD TBC SECTION) [FOR NTSC]**

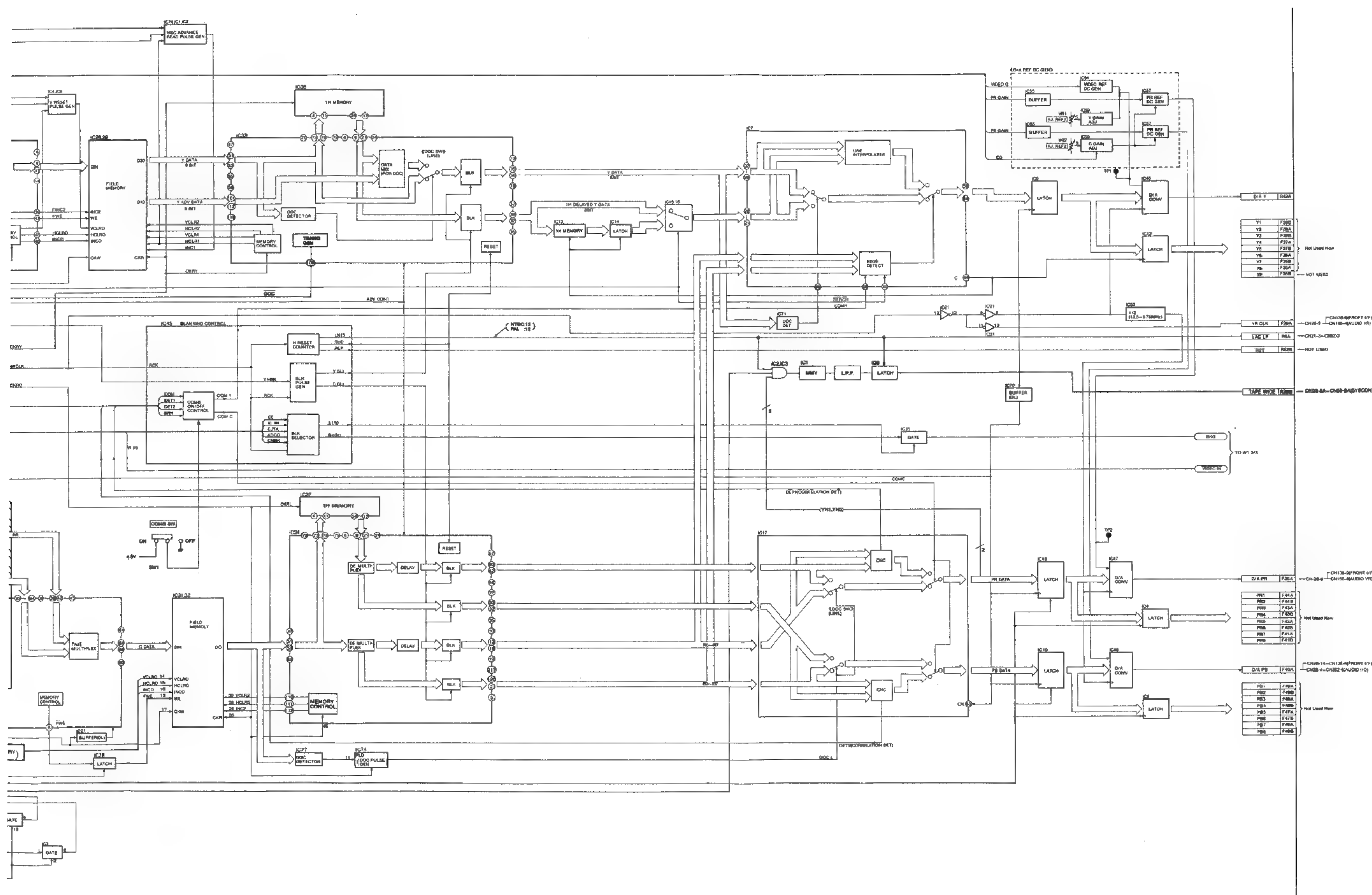




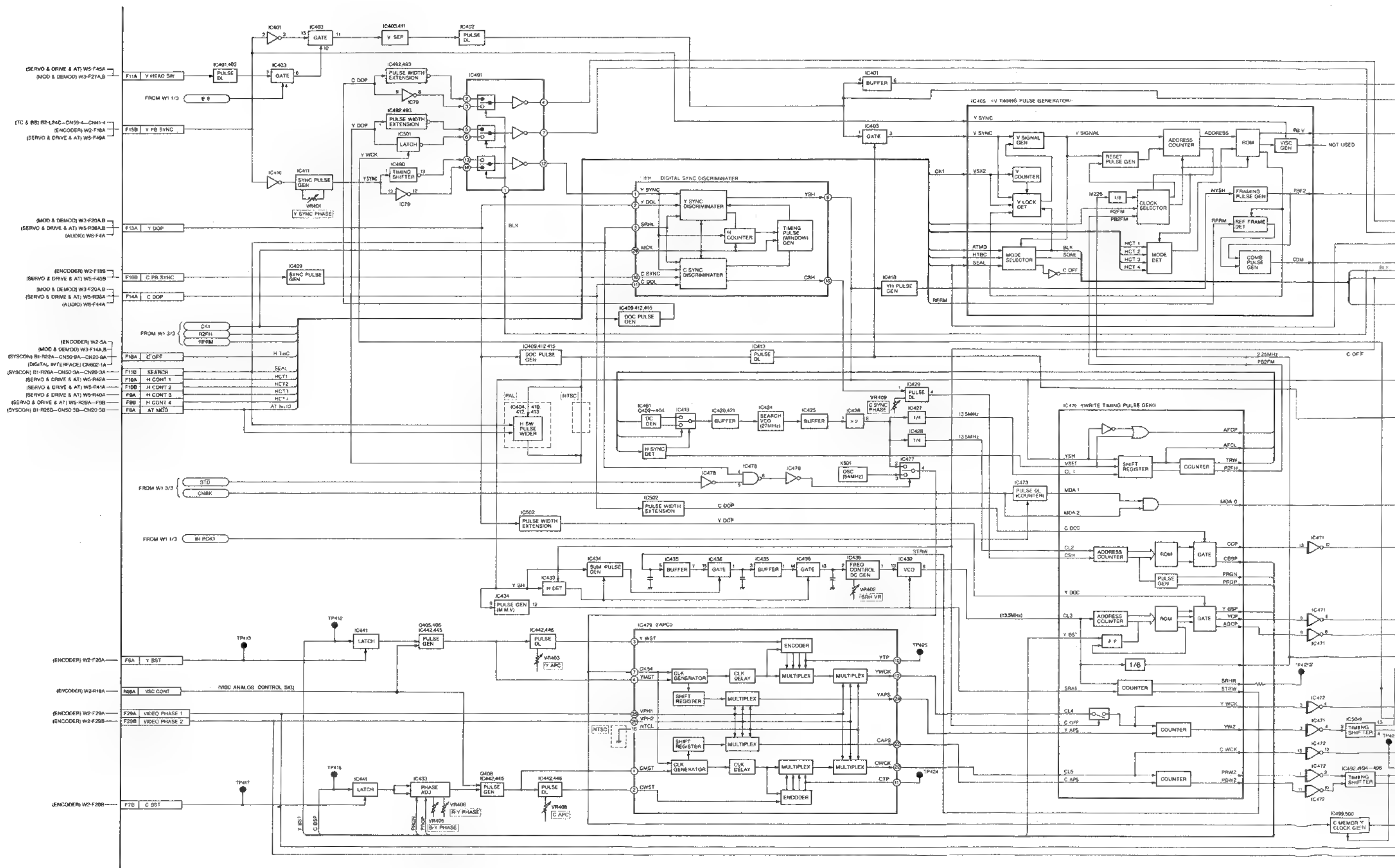
# W1(TBC & SYNC GEN) BLOCK DIAGRAM 1/3(FIELD TBC SECTION)[FOR PAL]



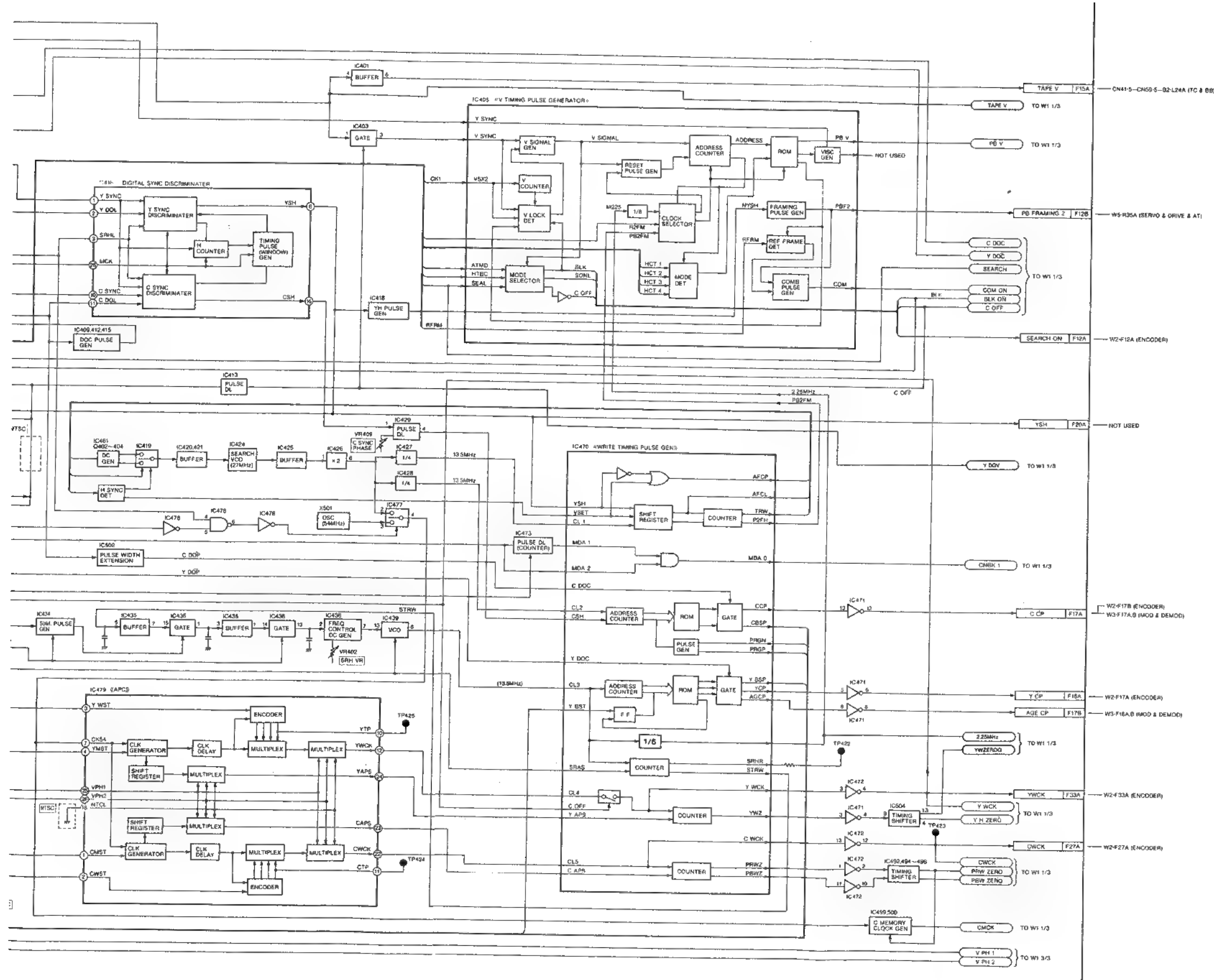
### GRAM 1/3(FIELD TBC SECTION)[FOR PAL]



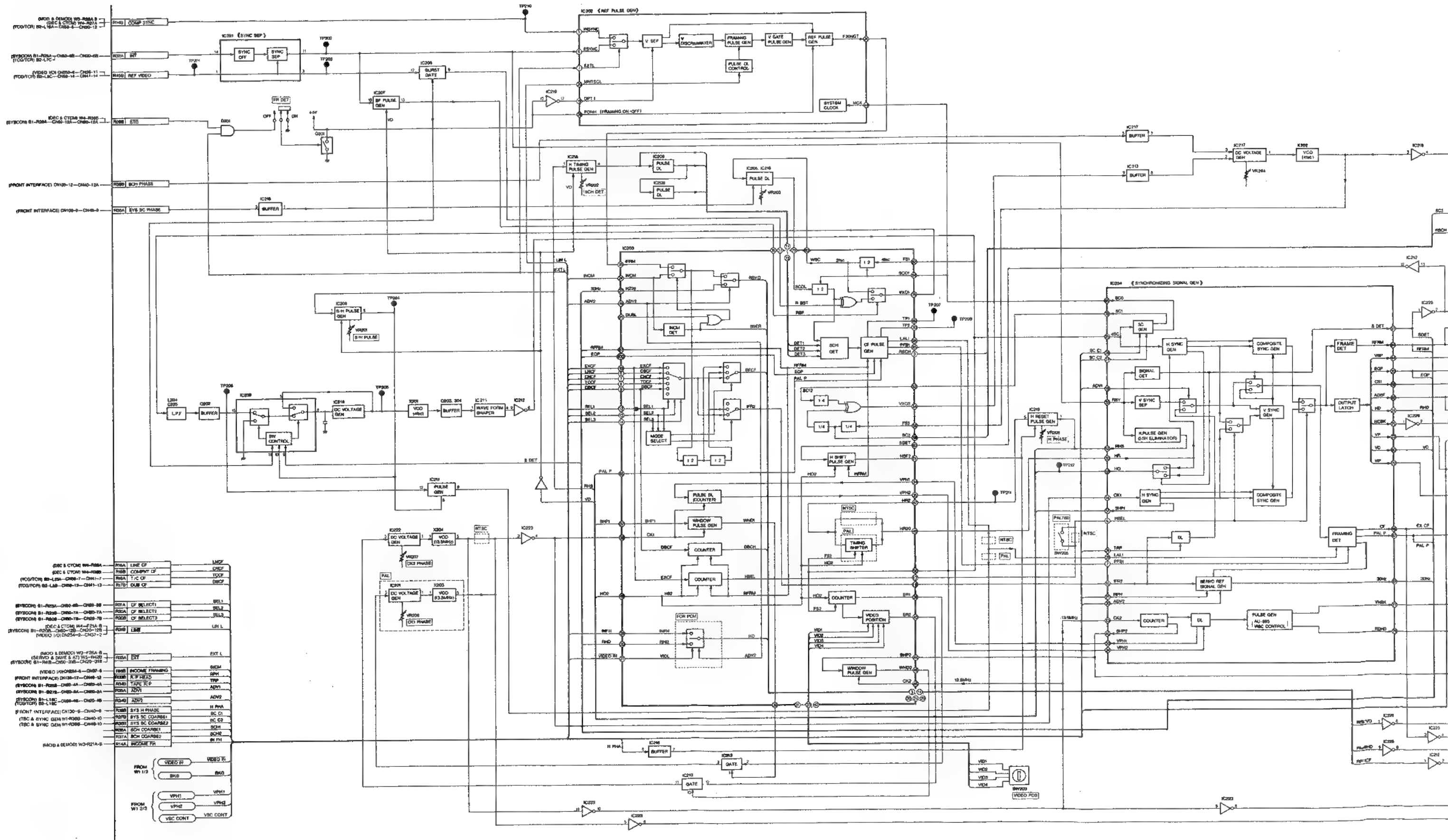
### W1(TBC & SYNC GEN) BLOCK DIAGRAM 2/3 (WRITE CLOCK GEN SECTION)



## M 2/3 (WRITE CLOCK GEN SECTION)

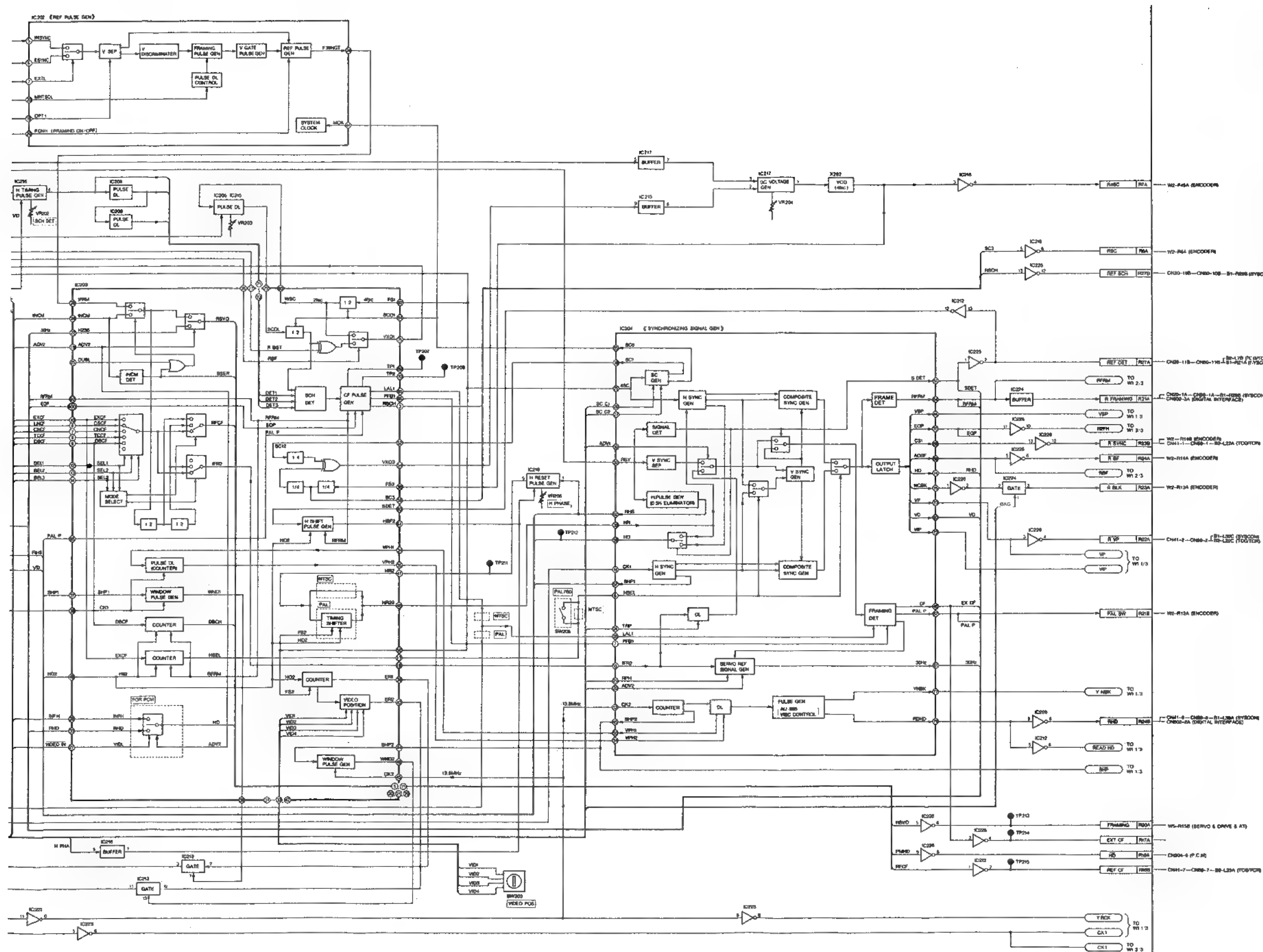


# W1(TBC & SYNC GEN) BLOCK DIAGRAM 3/3 (SYNC GEN SECTION)



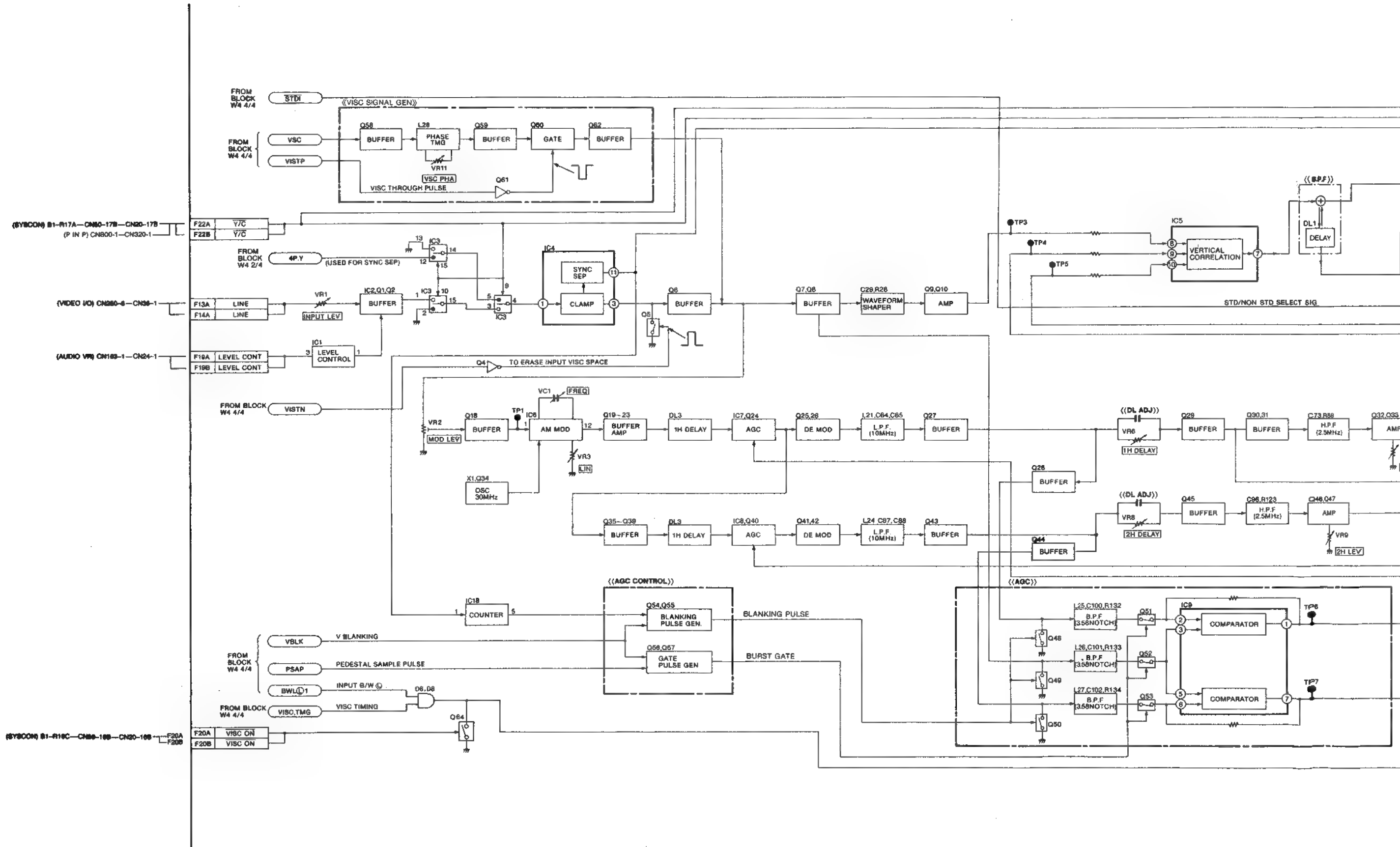


## 1/3 (SYNC GEN SECTION)



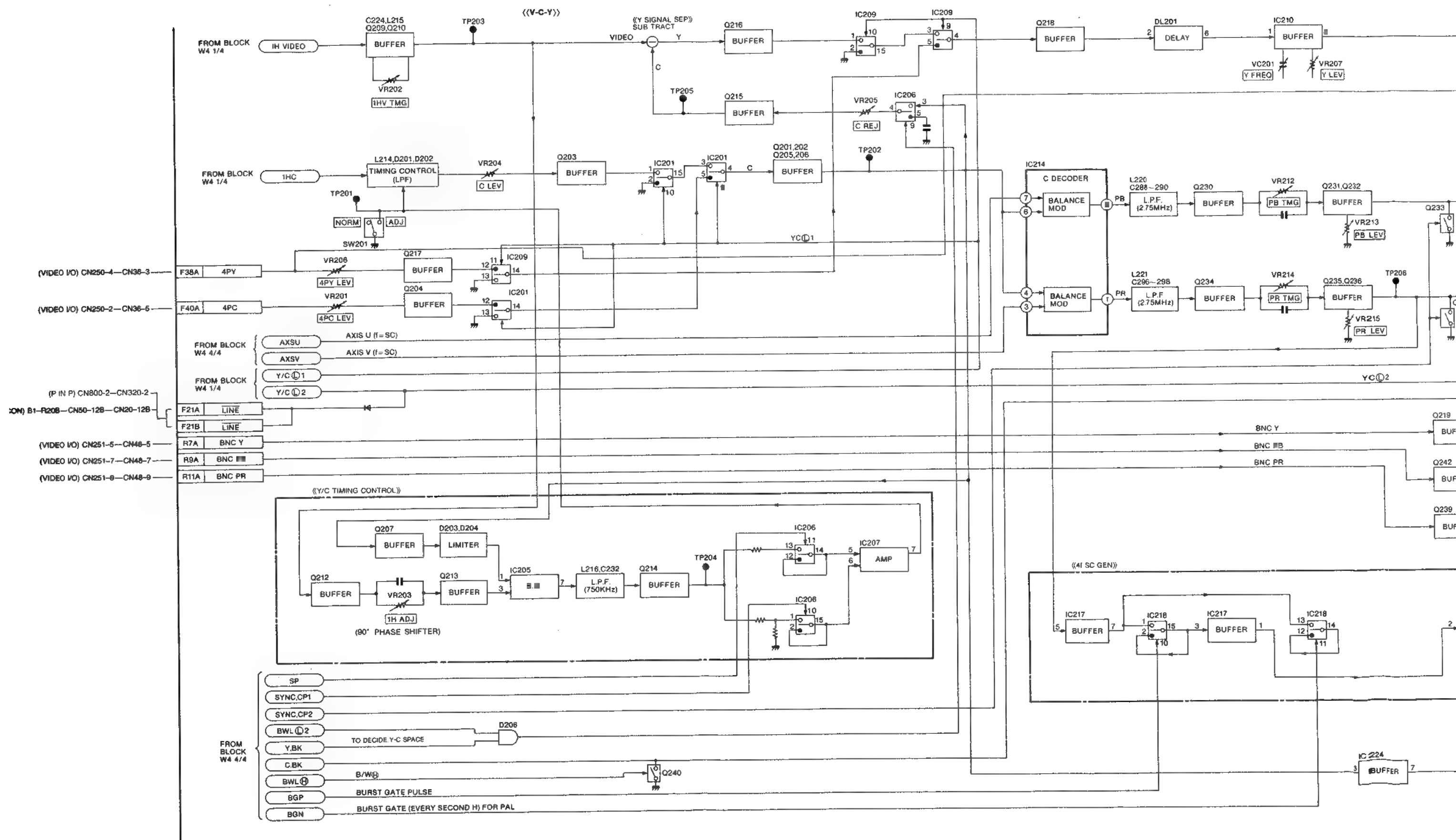


**W4 (DEC & CTCM) BLOCK DIAGRAM 1/4 (CHROMA SEP SECTION)[FOR AU-65H NTSC]**



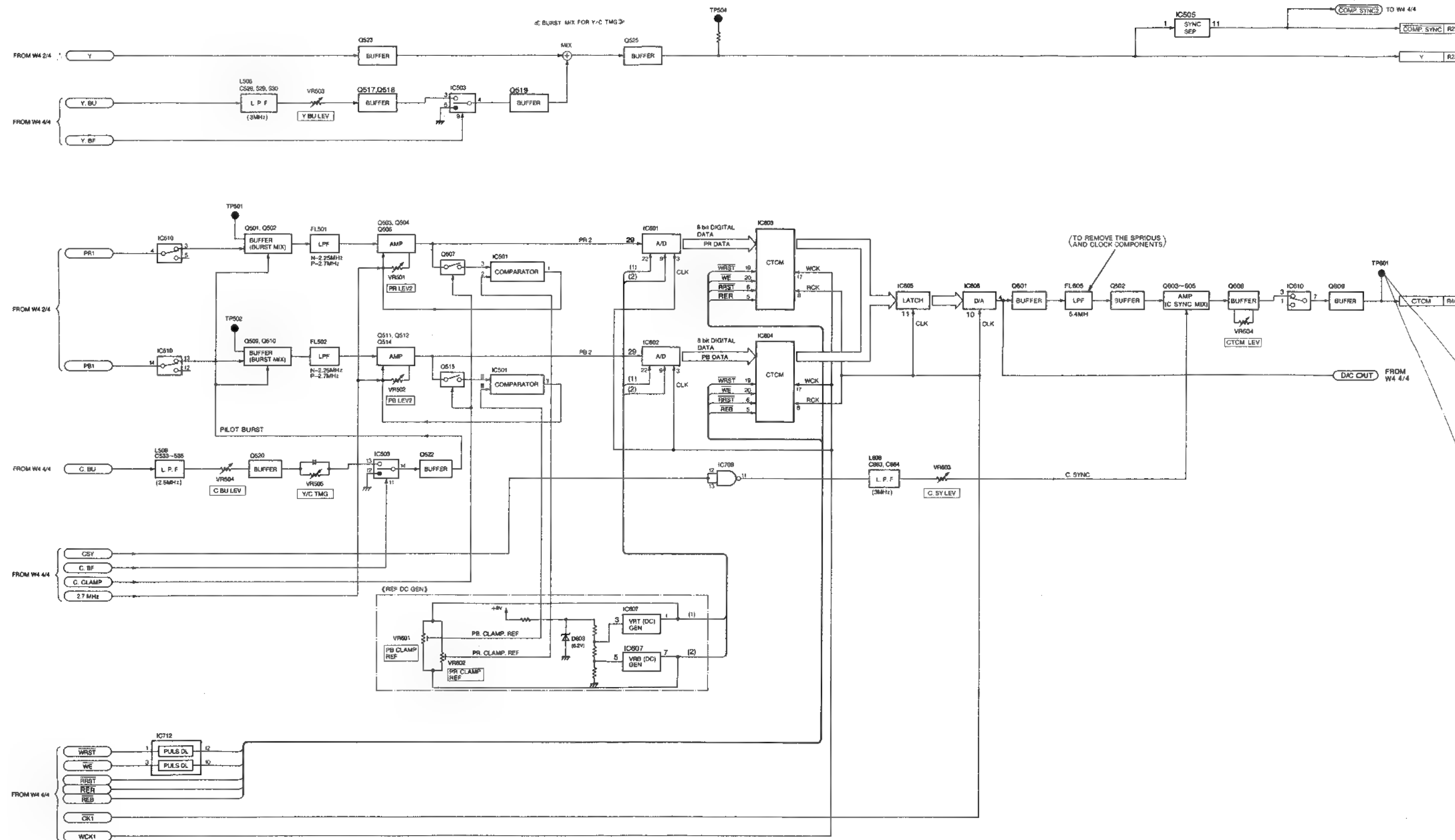


**W4 (DEC & CTCM) BLOCK DIAGRAM 2/4 (Y,P<sub>B</sub>,P<sub>R</sub> DECODER SECTION) [FOR AU-65H NTSC ]**

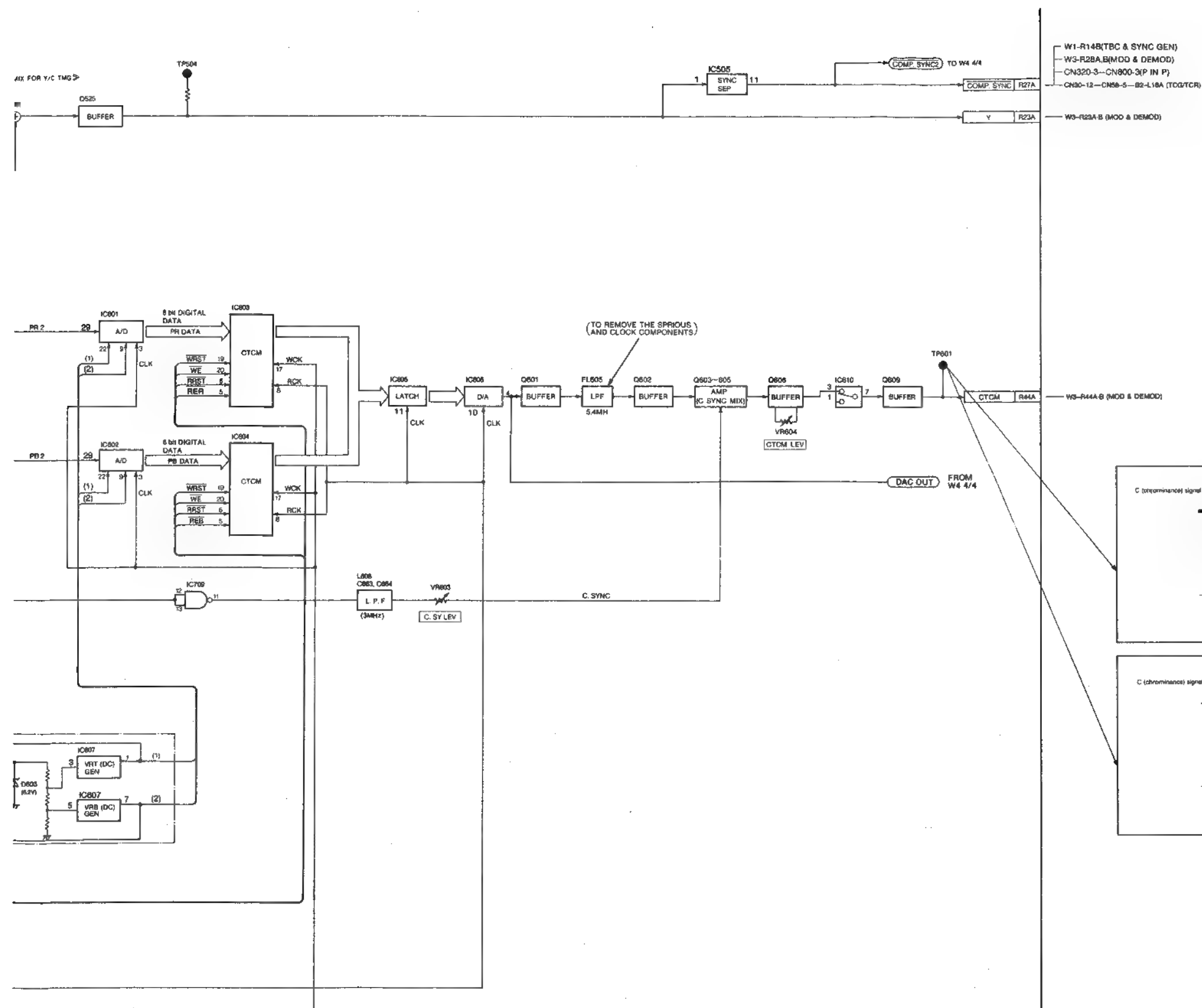




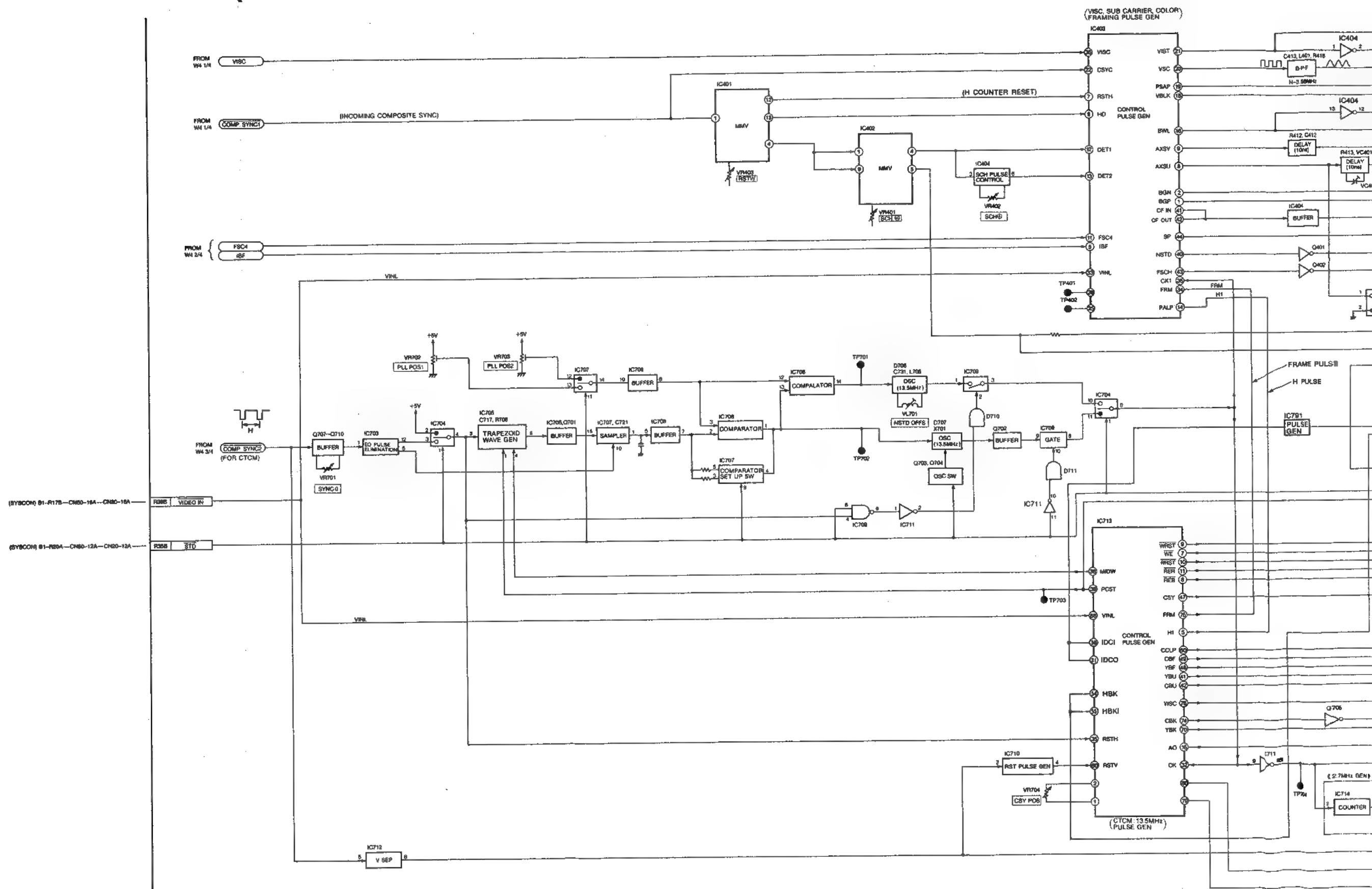
# W4 (DEC & CTCM) BLOCK DIAGRAM 3/4 (CTCM SECTION) [FOR AU-65H NTSC]



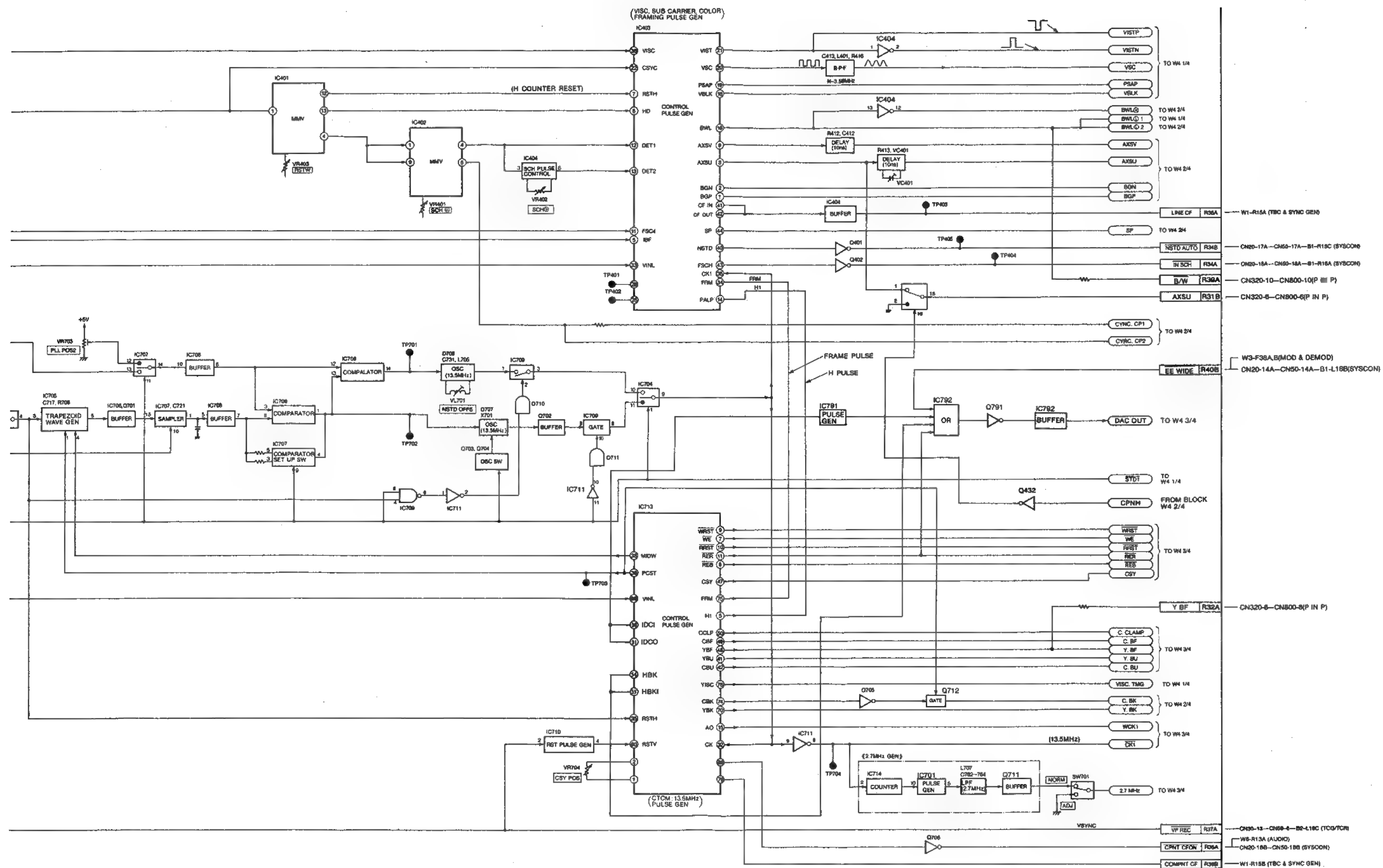
# CM SECTION) [FOR AU-65H NTSC]



**W4 (DEC & CTCM) BLOCK DIAGRAM 4/4 (CONTROL PULSE GENERATION SECTION) [FOR AU-65H NTSC]**

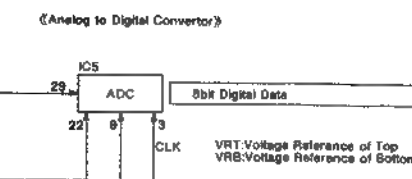


### LOCK DIAGRAM 4/4 (CONTROL PULSE GENERATION SECTION) [FOR AU-65H NTSC]

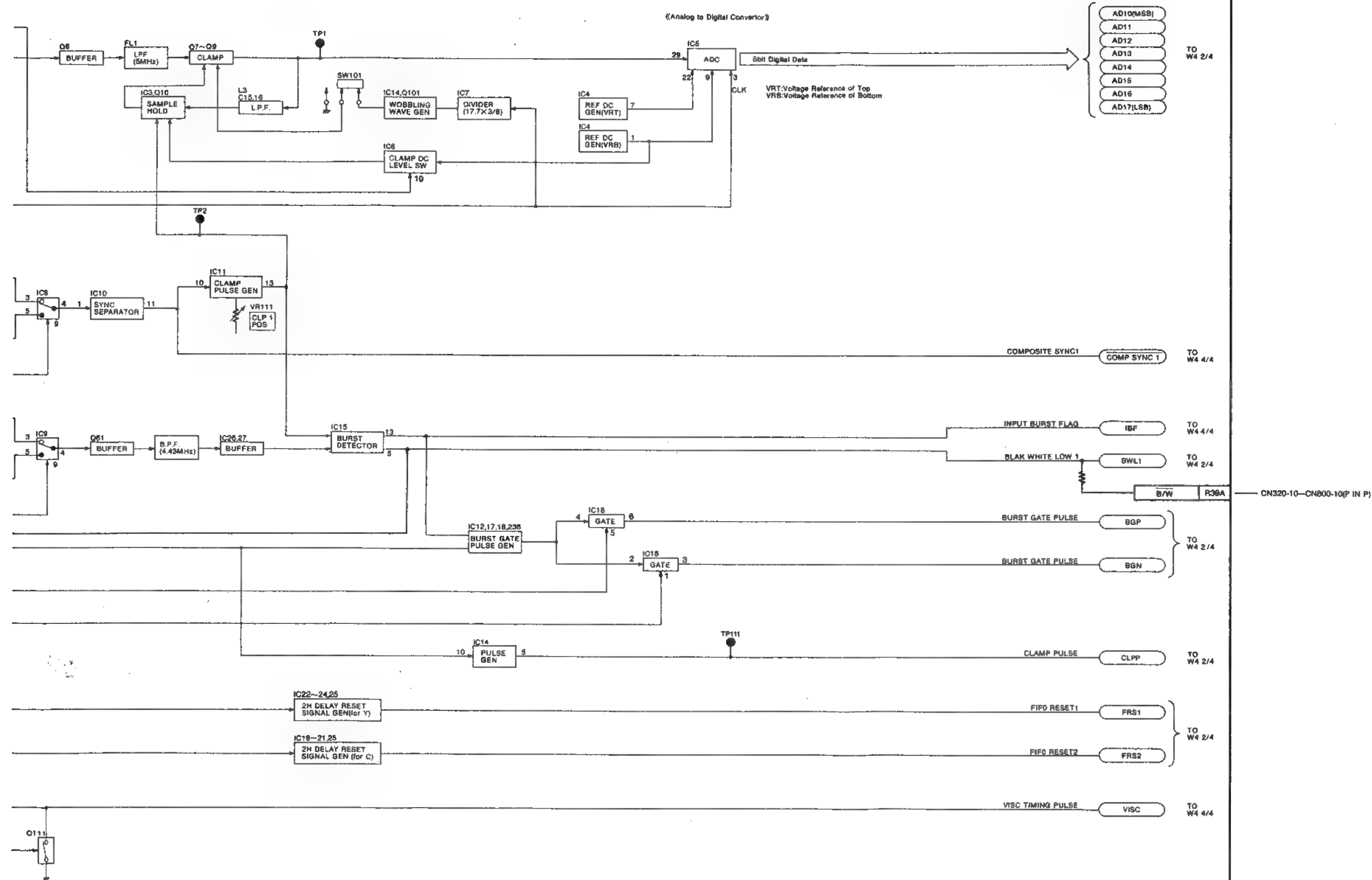




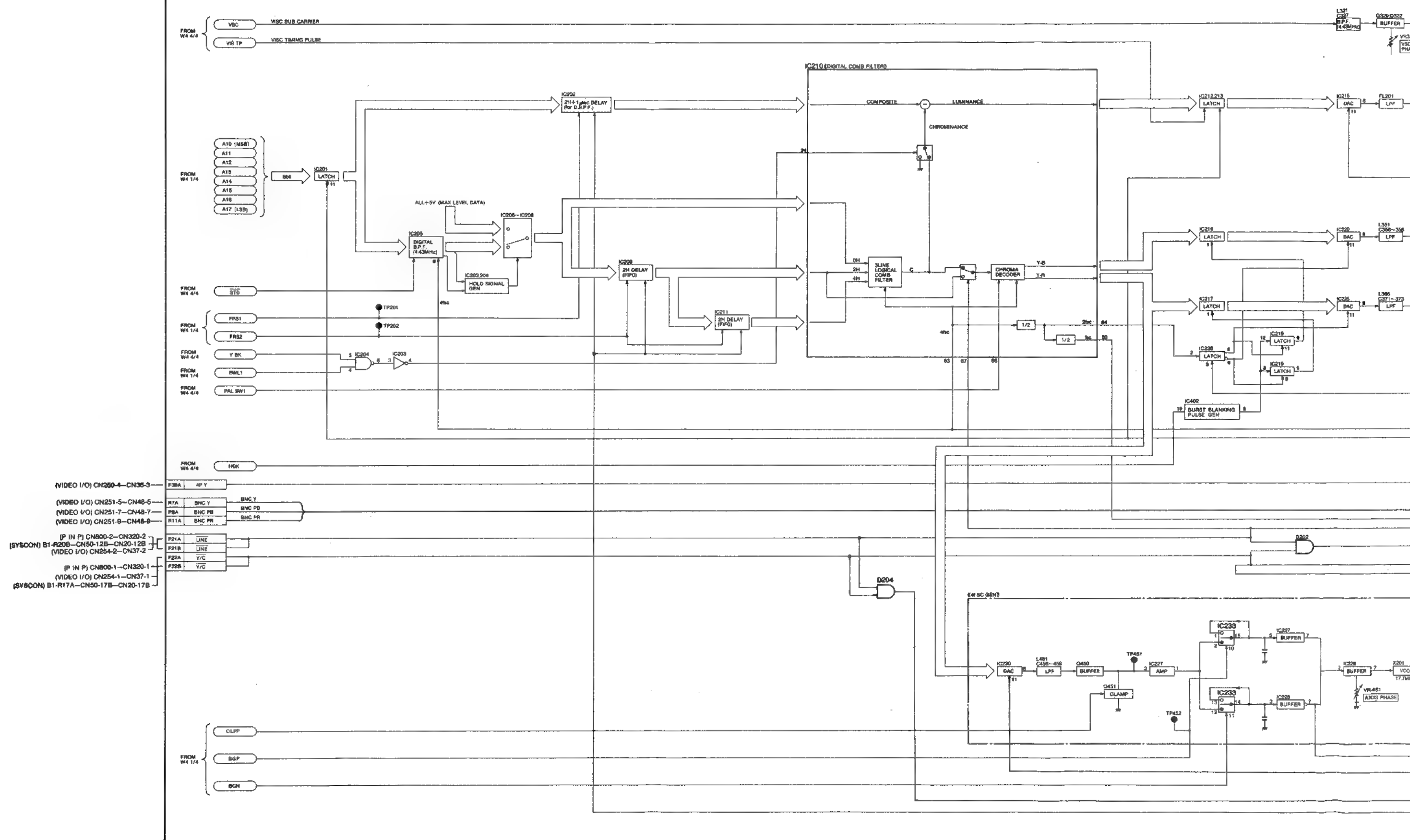
2000年12月29日  
 2000年12月29日



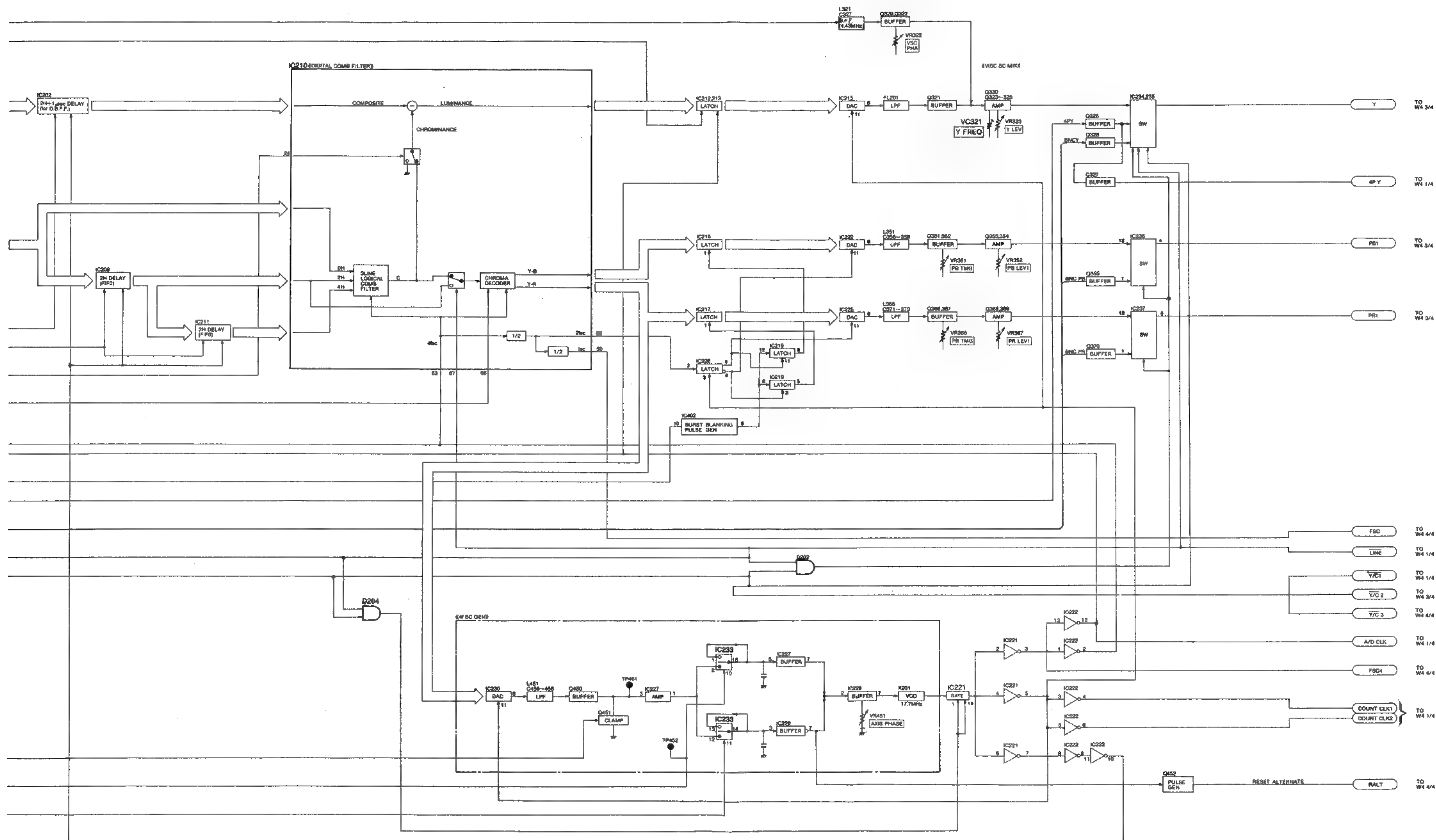
# A/D SECTION) [FOR AU-65H PAL]



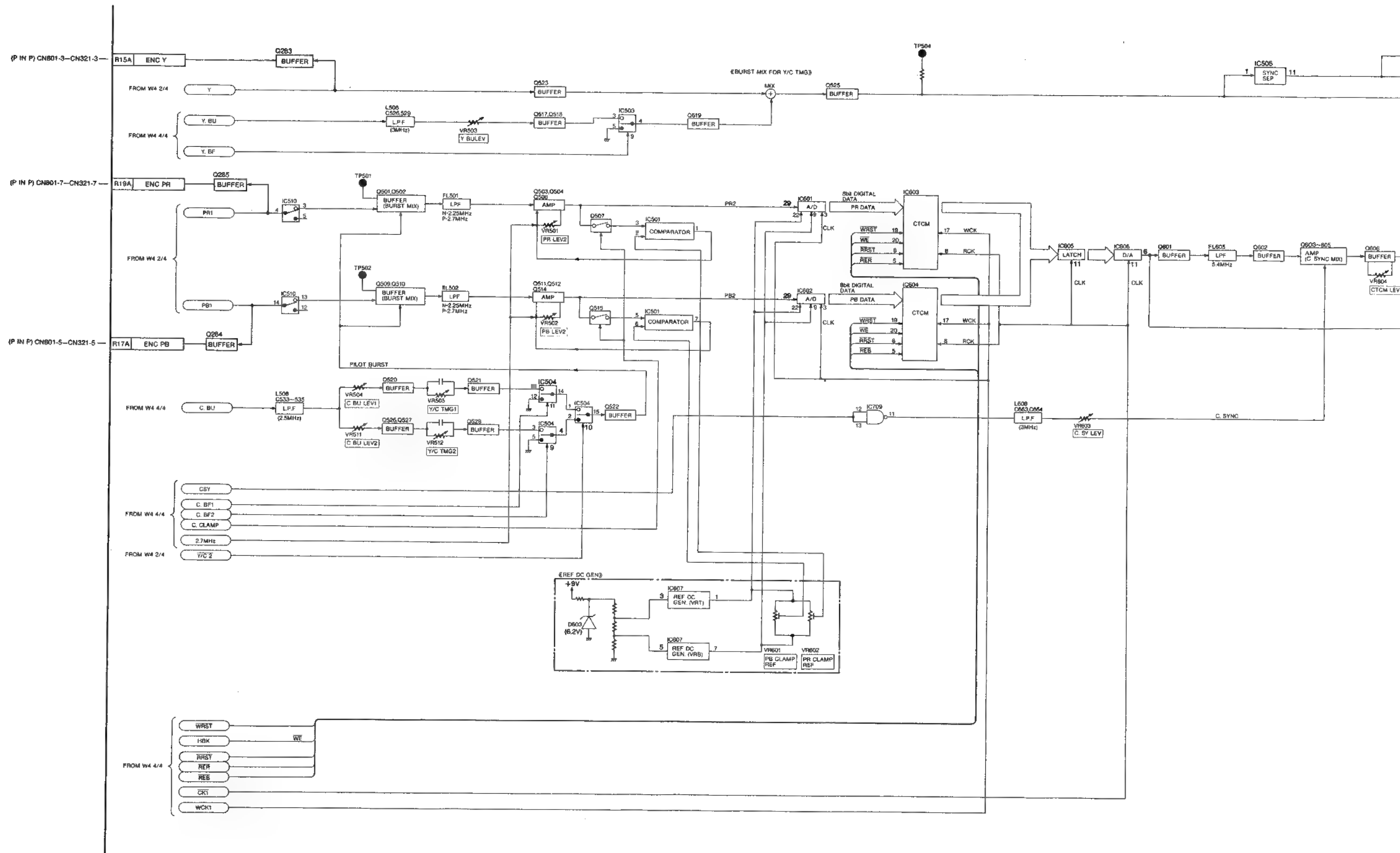
### W4 (DECODER) BLOCK DIAGRAM 2/4 (DIGITAL DECODER) [FOR AU-65H PAL]



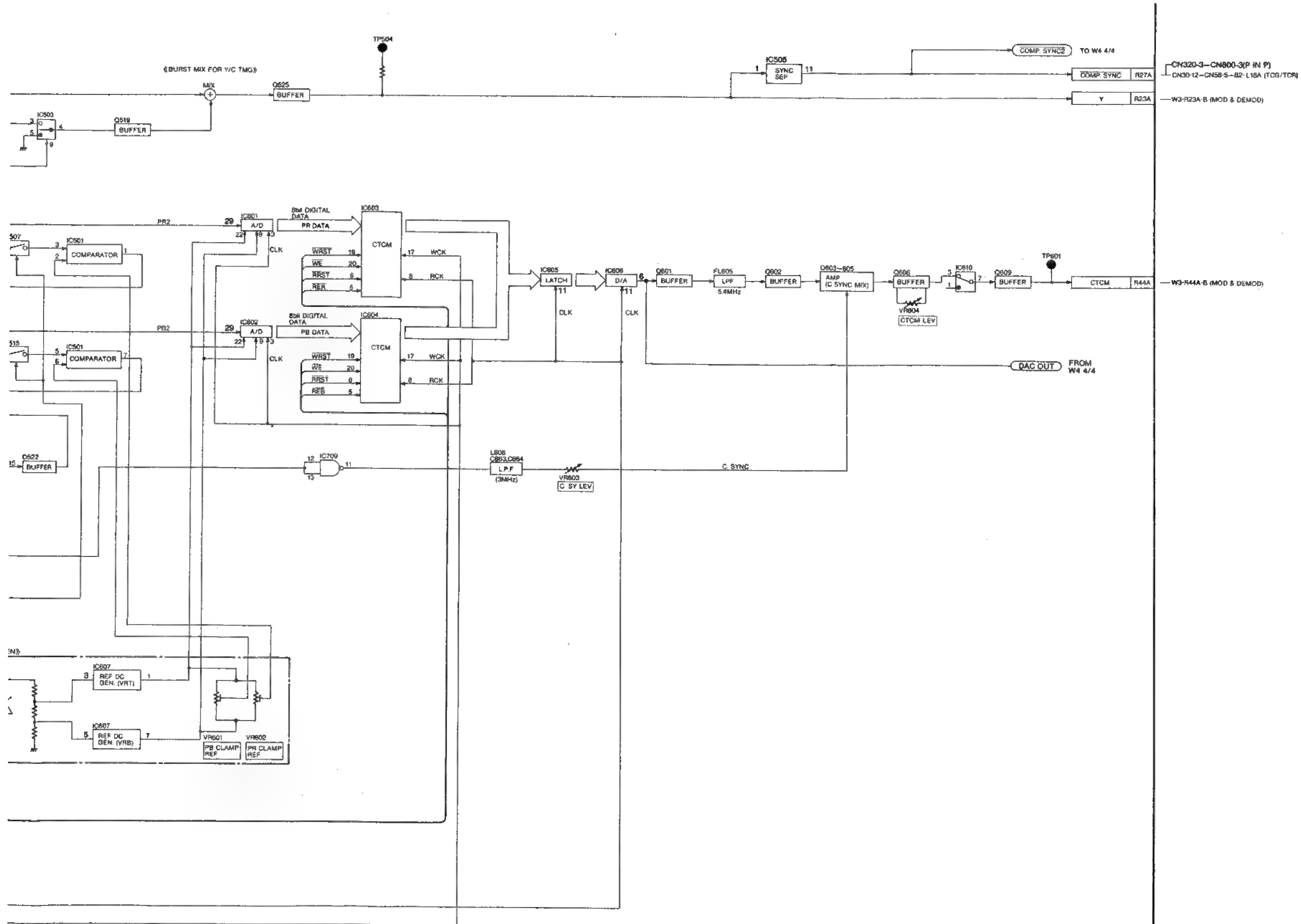
## 2/4 (DIGITAL DECODER) [FOR AU-65H PAL]



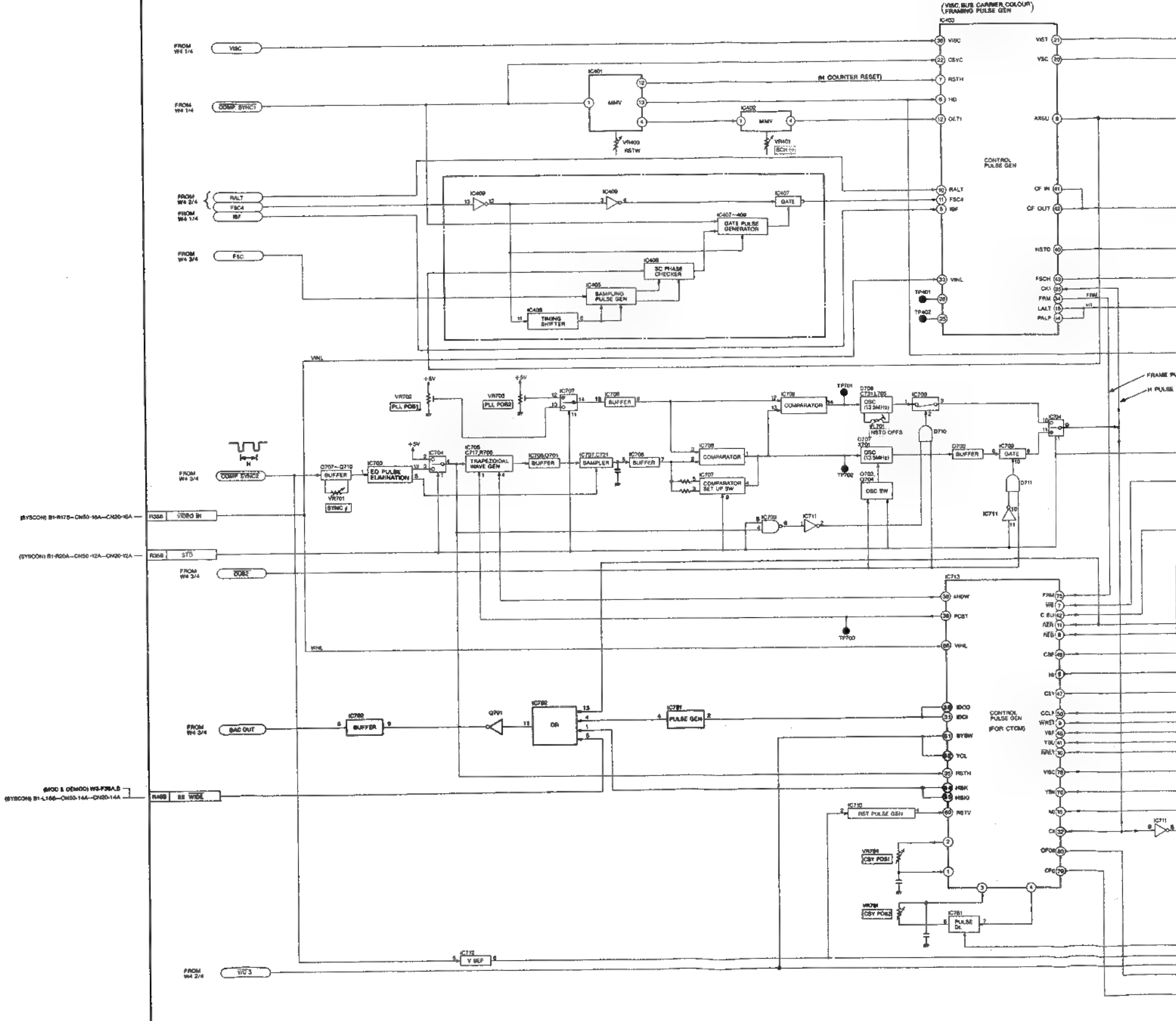
# W4 (DECODER) BLOCK DIAGRAM 3/4 (CTCM SECTION) [FOR AU-65H PAL]



**M SECTION) [FOR AU-65H PAL]**



#### W4 (DECODER) BLOCK DIAGRAM 4/4 (CONTROL PULSE GENERATION [FOR A

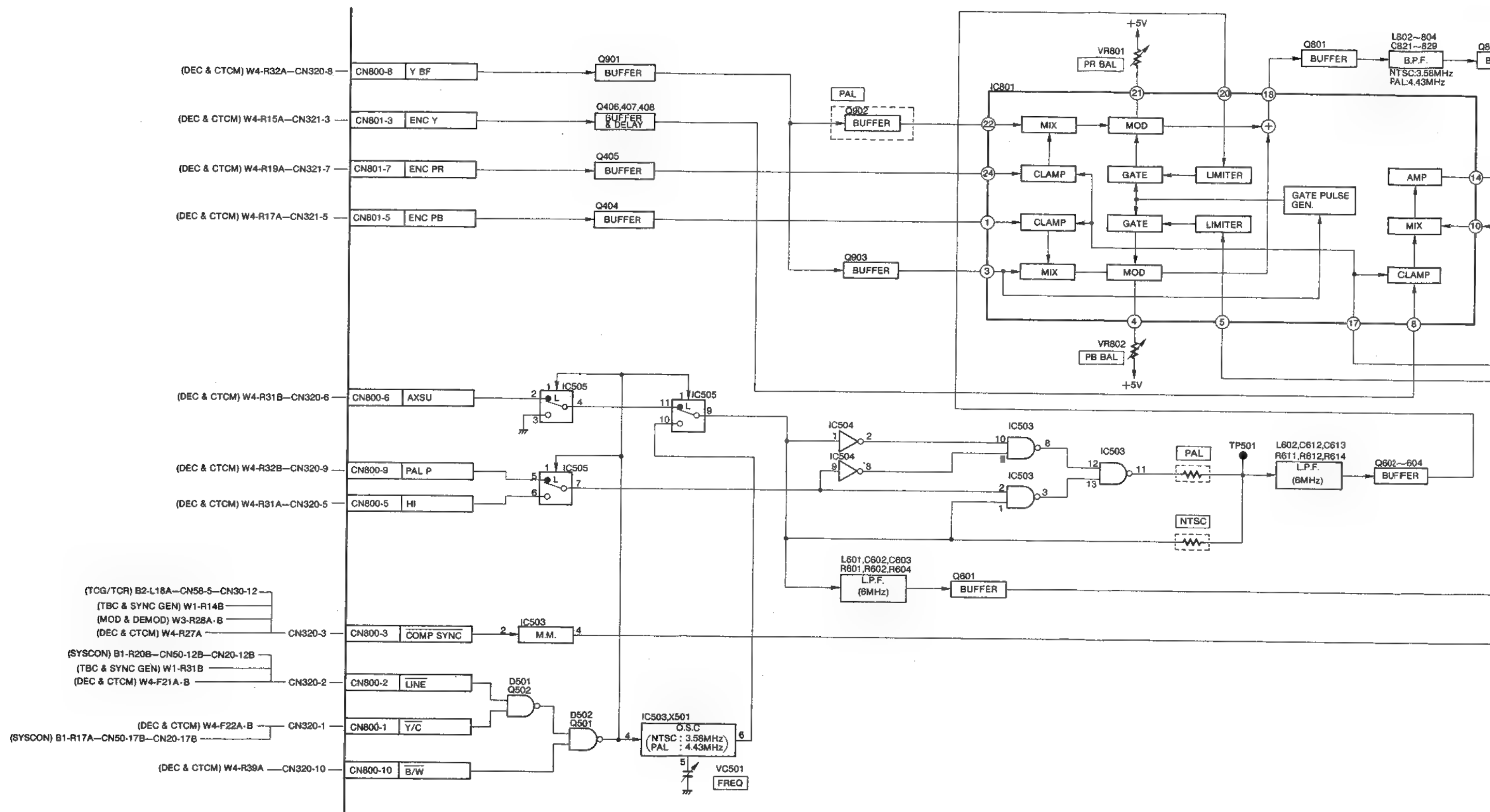


## BLK-13

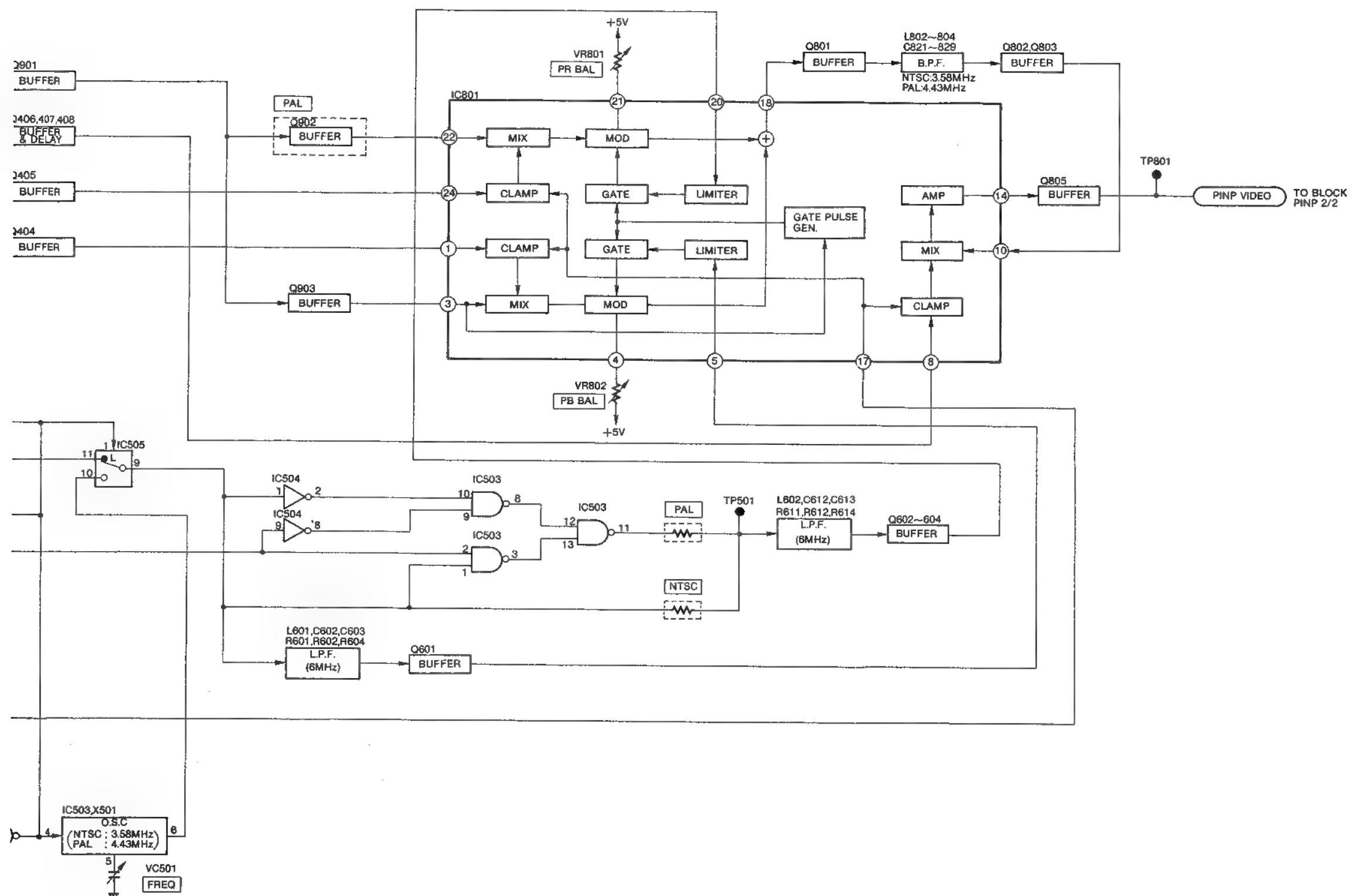




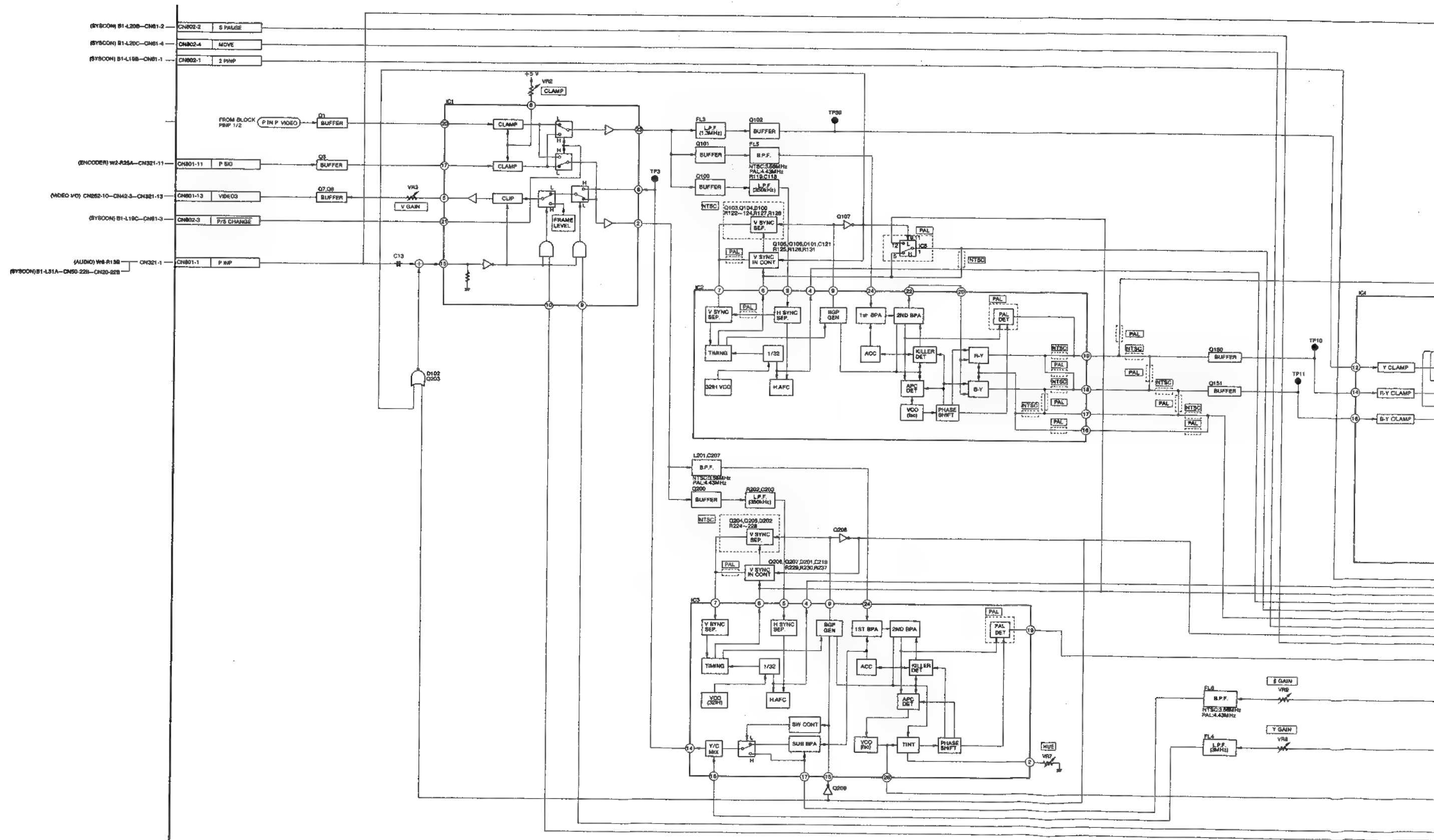
# SENC & P IN P BLOCK DIAGRAM 1/2 (SUB ENCODER SECTION) [FOR AU-65H]



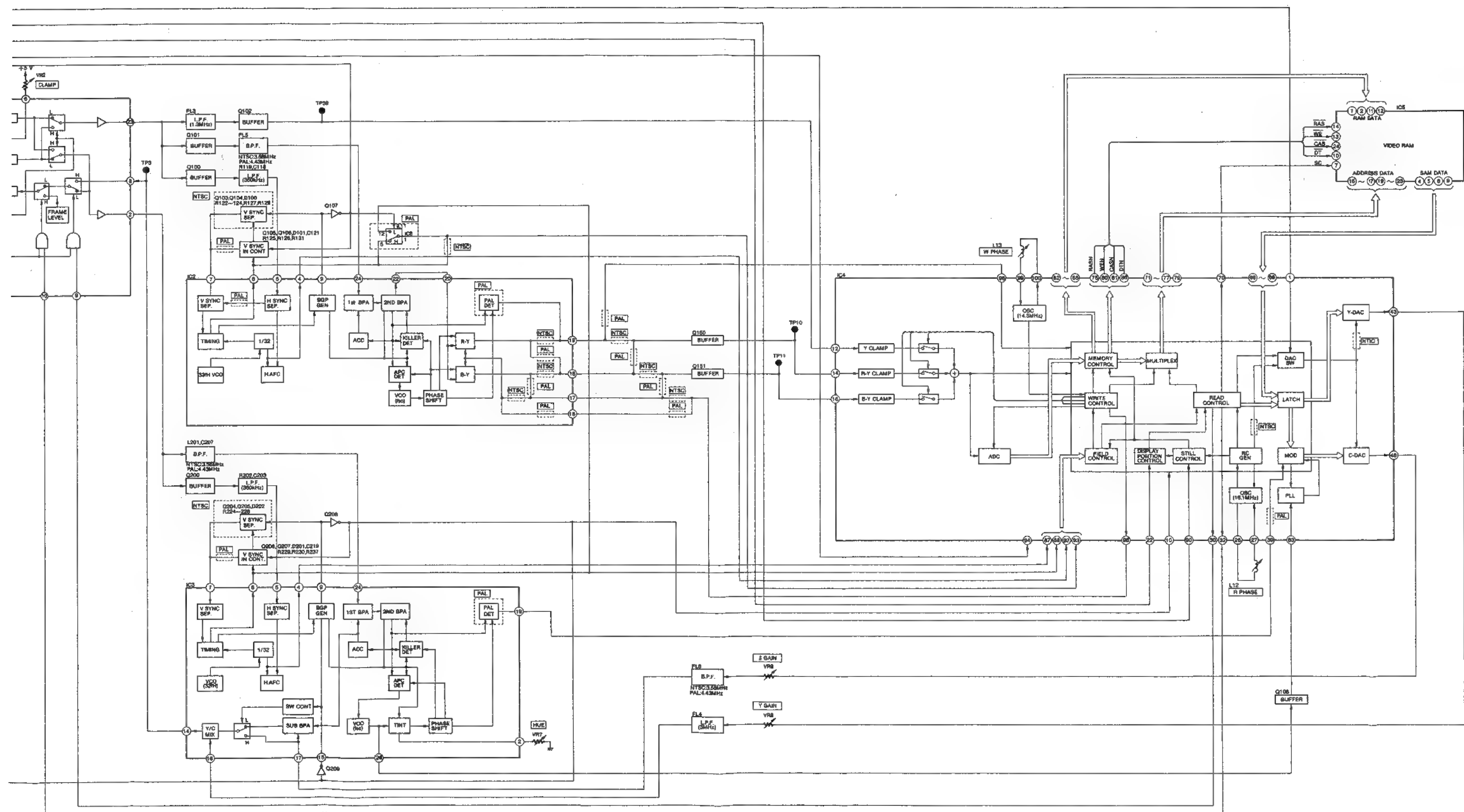
# 1/2 (SUB ENCODER SECTION) [FOR AU-65H]



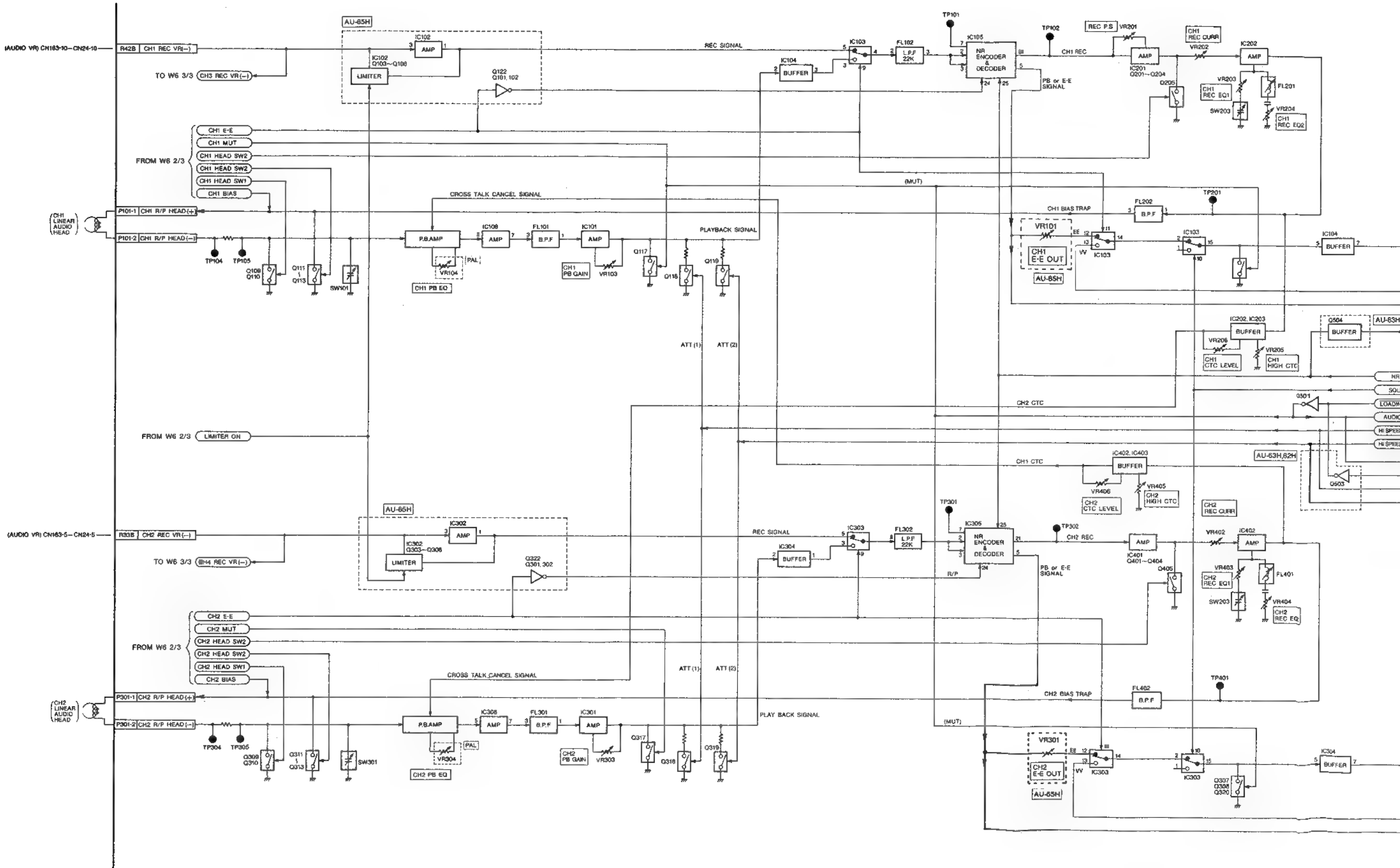
## SENC & P IN P BLOCK DIAGRAM 2/2 (P IN P SECTION) [FOR AU-65H]



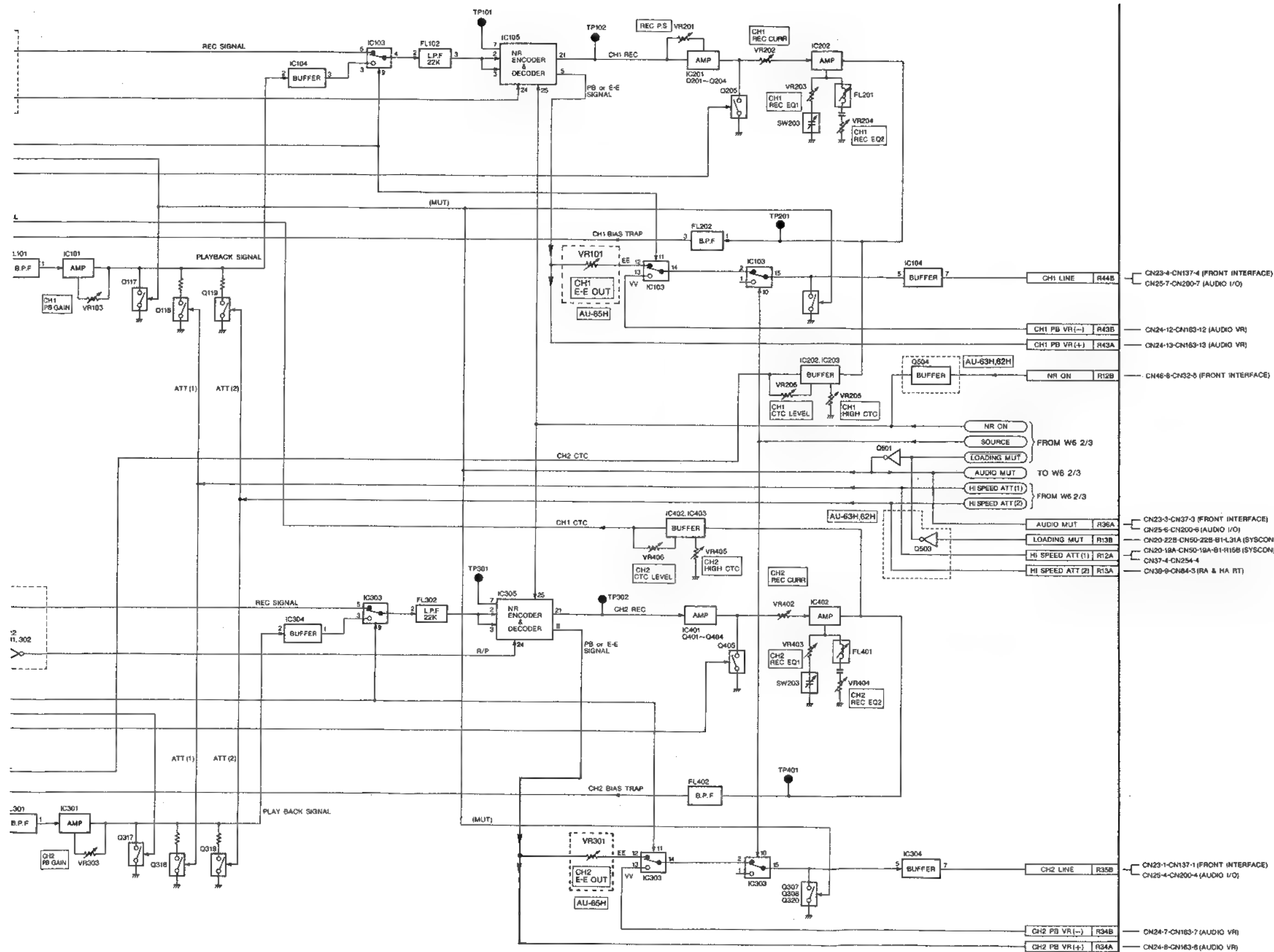
# RAM 2/2 (P IN P SECTION)[FOR AU-65H]



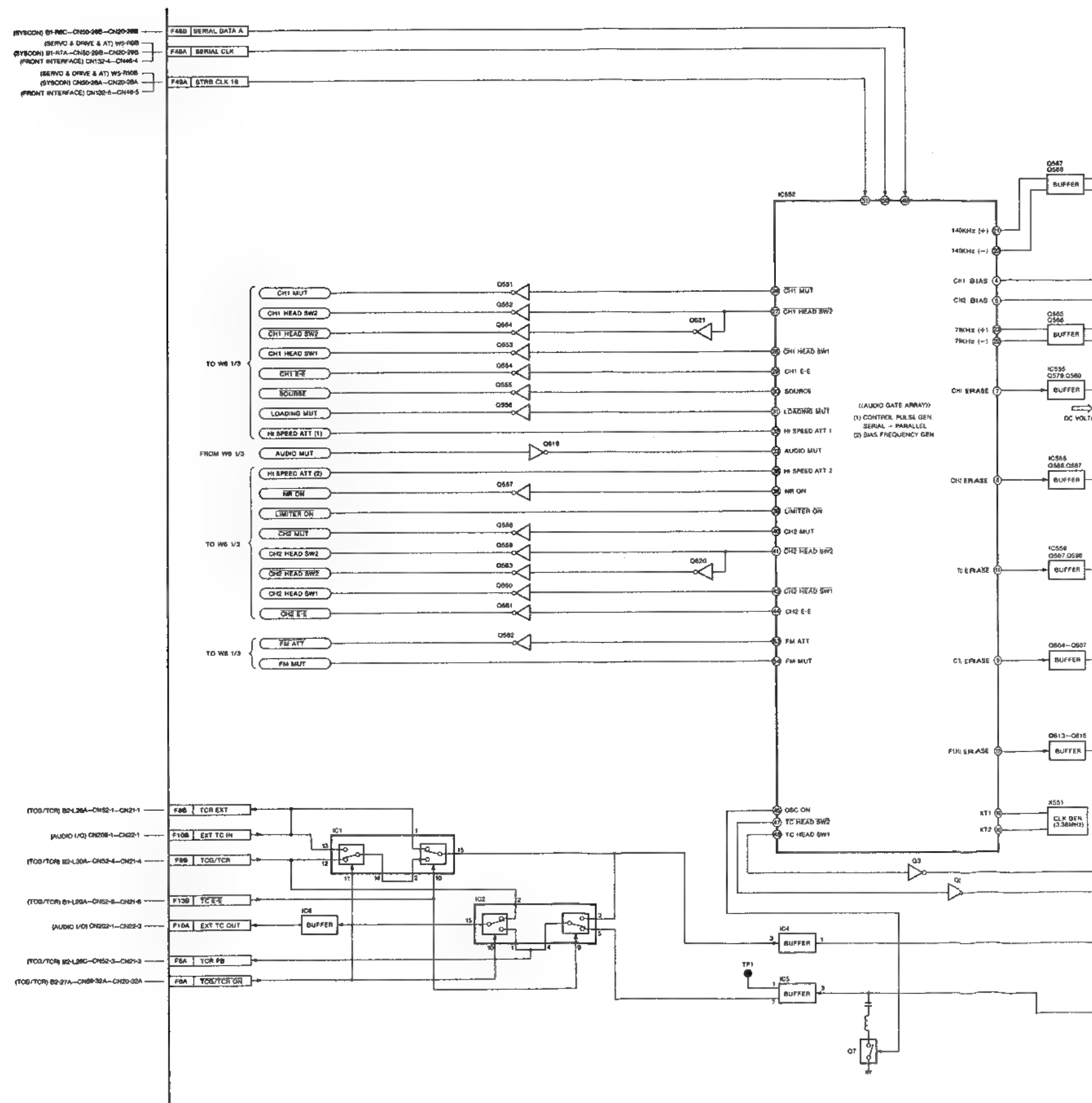
### W6 (AUDIO) BLOCK DIAGRAM 1/3 (LINEAR AUDIO SECTION)



# 3 (LINEAR AUDIO SECTION)



# W6 (AUDIO) BLOCK DIAGRAM 2/3 (REC BIAS & TC SECTION)

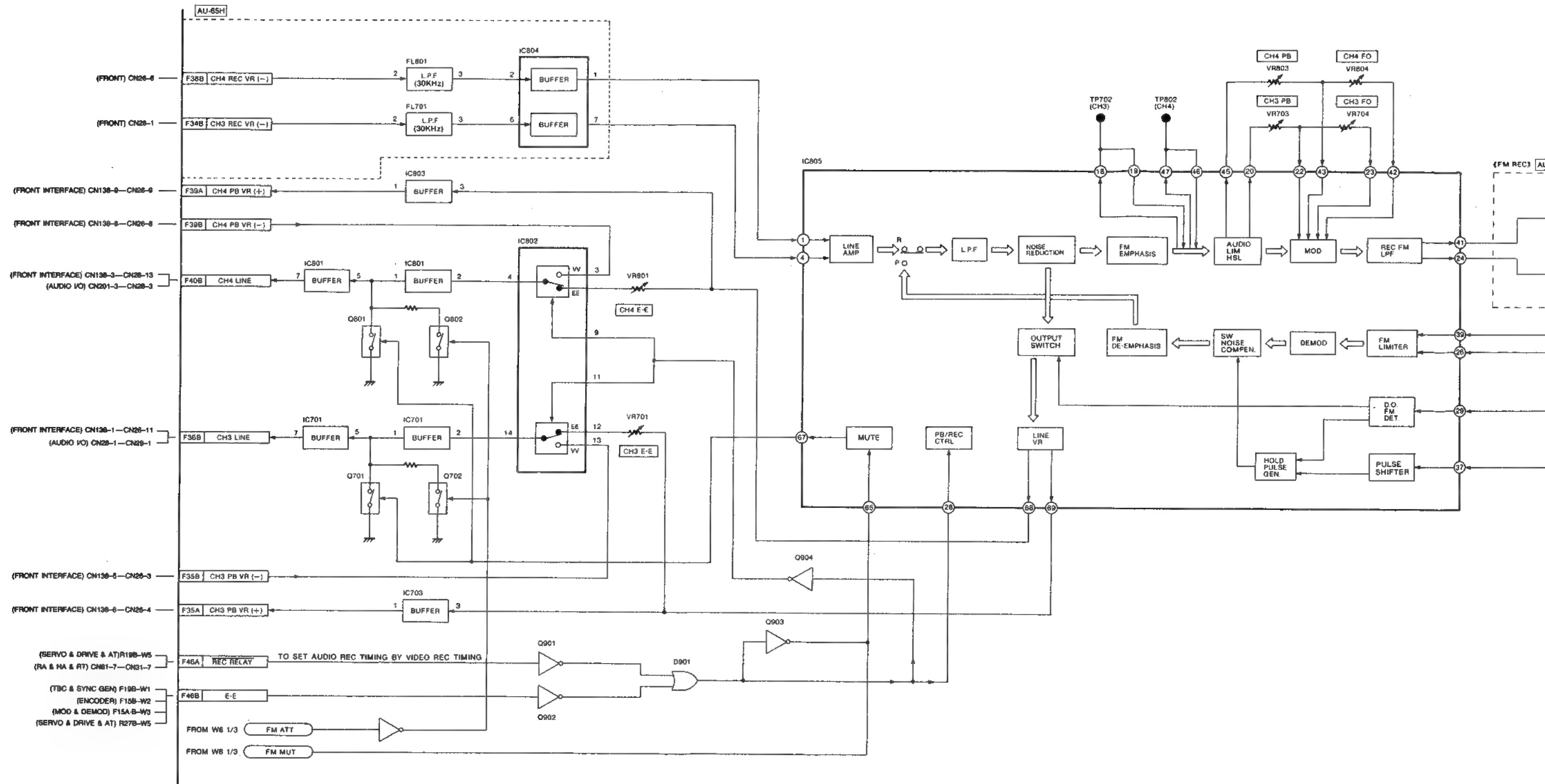


## AUDIO BLOCK DIA

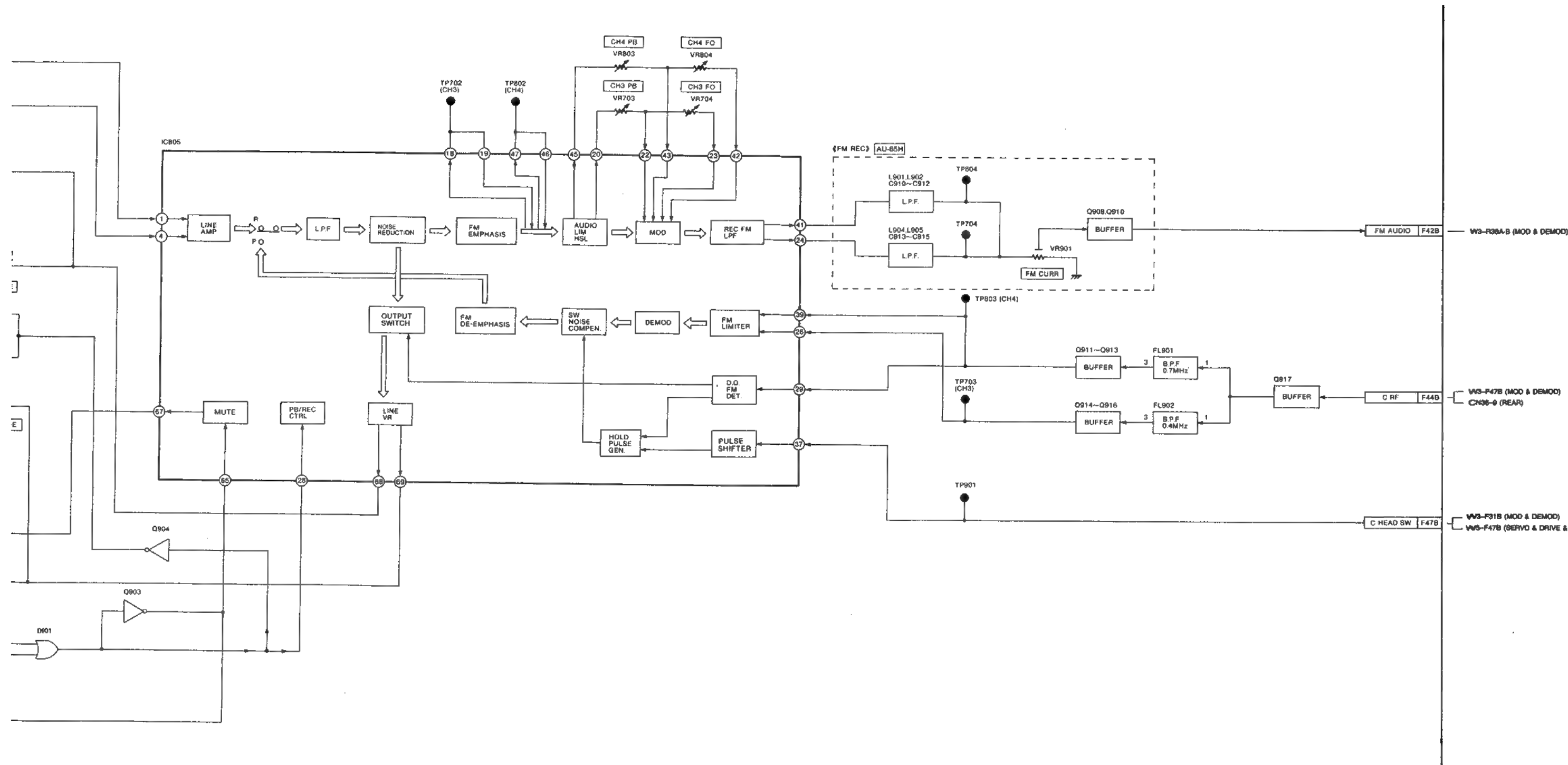




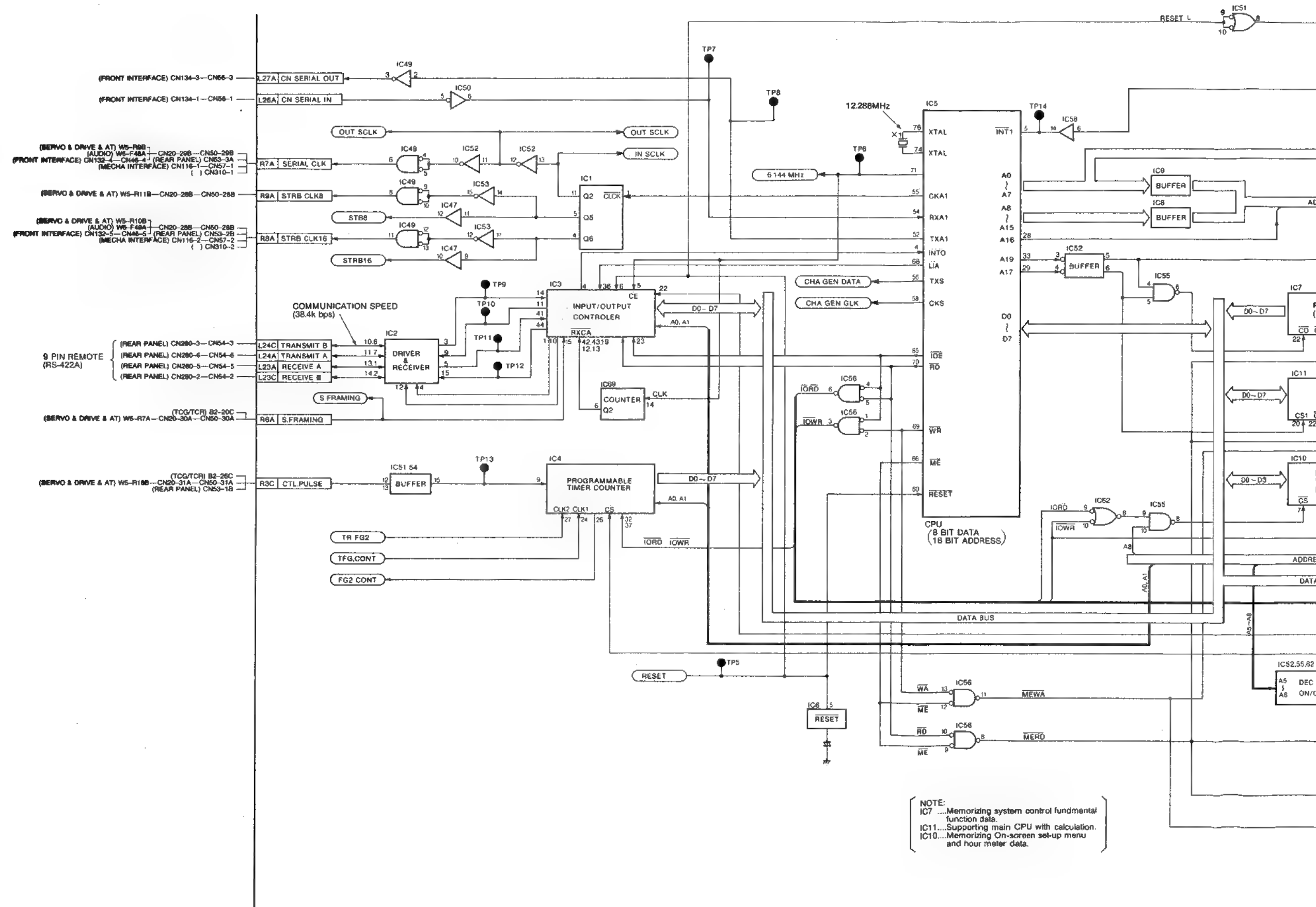
# W6(AUDIO) BLOCK DIAGRAM 3/3(FM AUDIO SECTION)



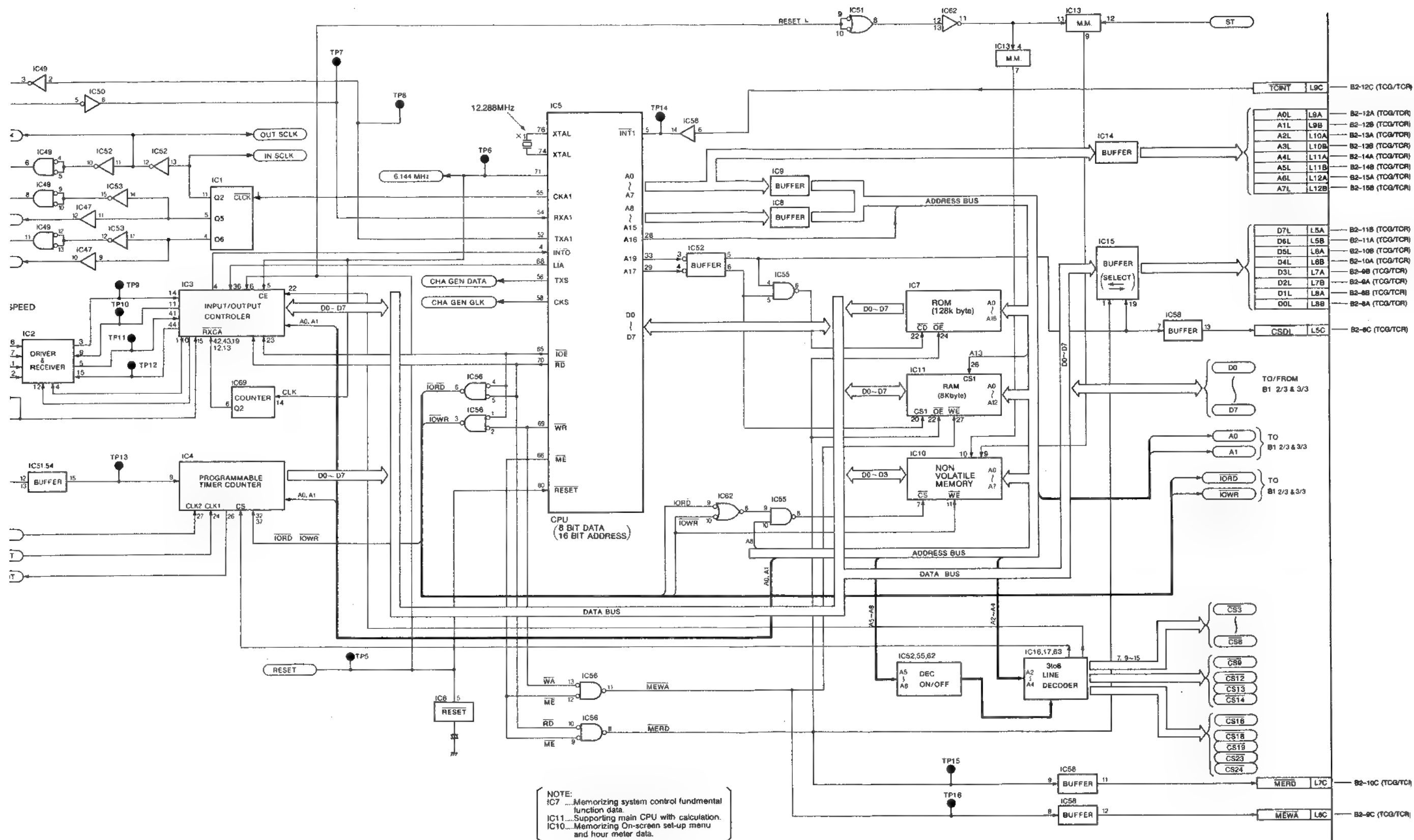
# DIO SECTION)



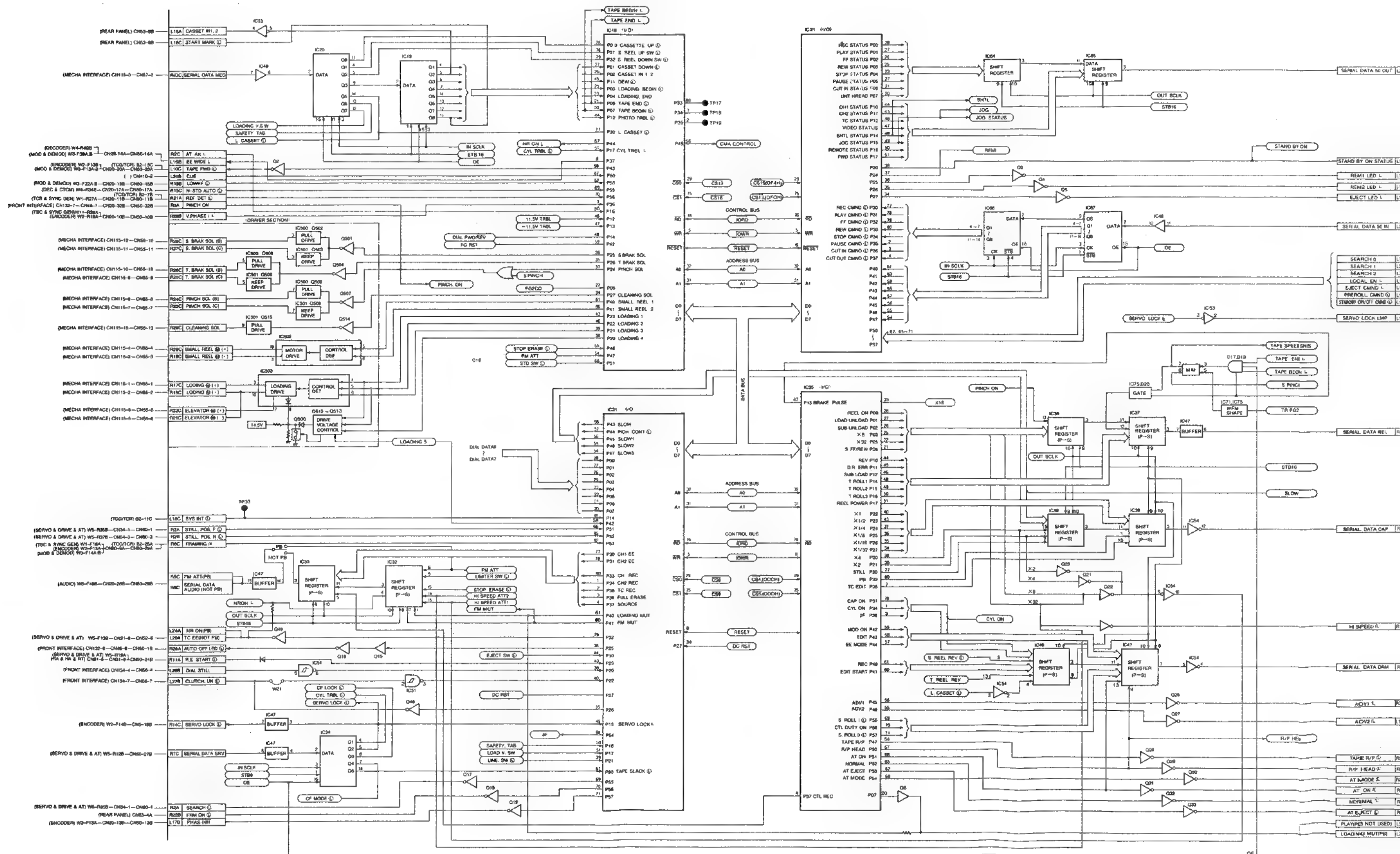
# B1 (SYSTEM CONTROL) BLOCK DIAGRAM 1/3 (CPU SECTION)



## SYSTEM CONTROL) BLOCK DIAGRAM 1/3 (CPU SECTION)

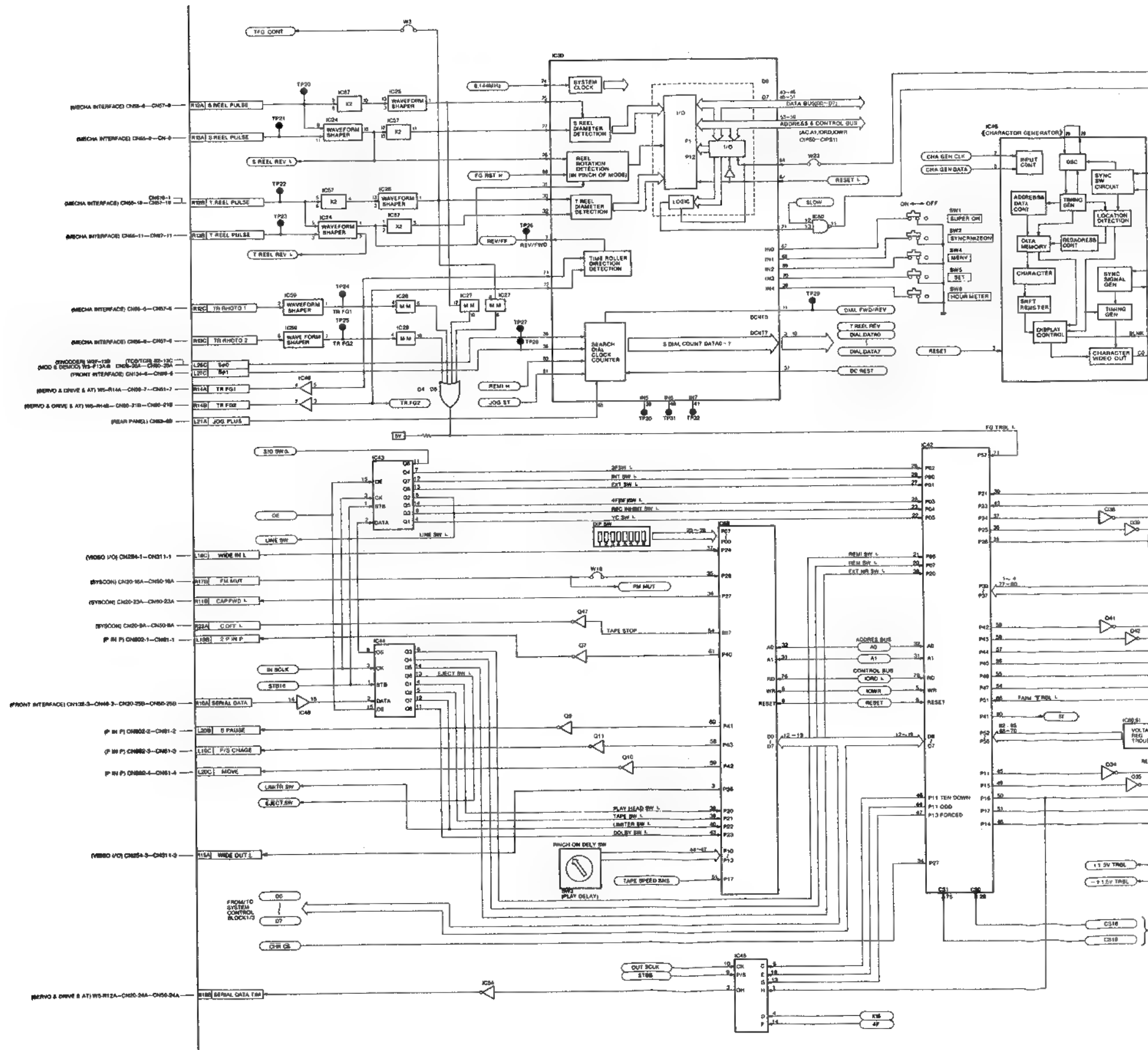


## B1 (SYSTEM CONTROL) BLOCK DIAGRAM 2/3 (I/O SECTION)

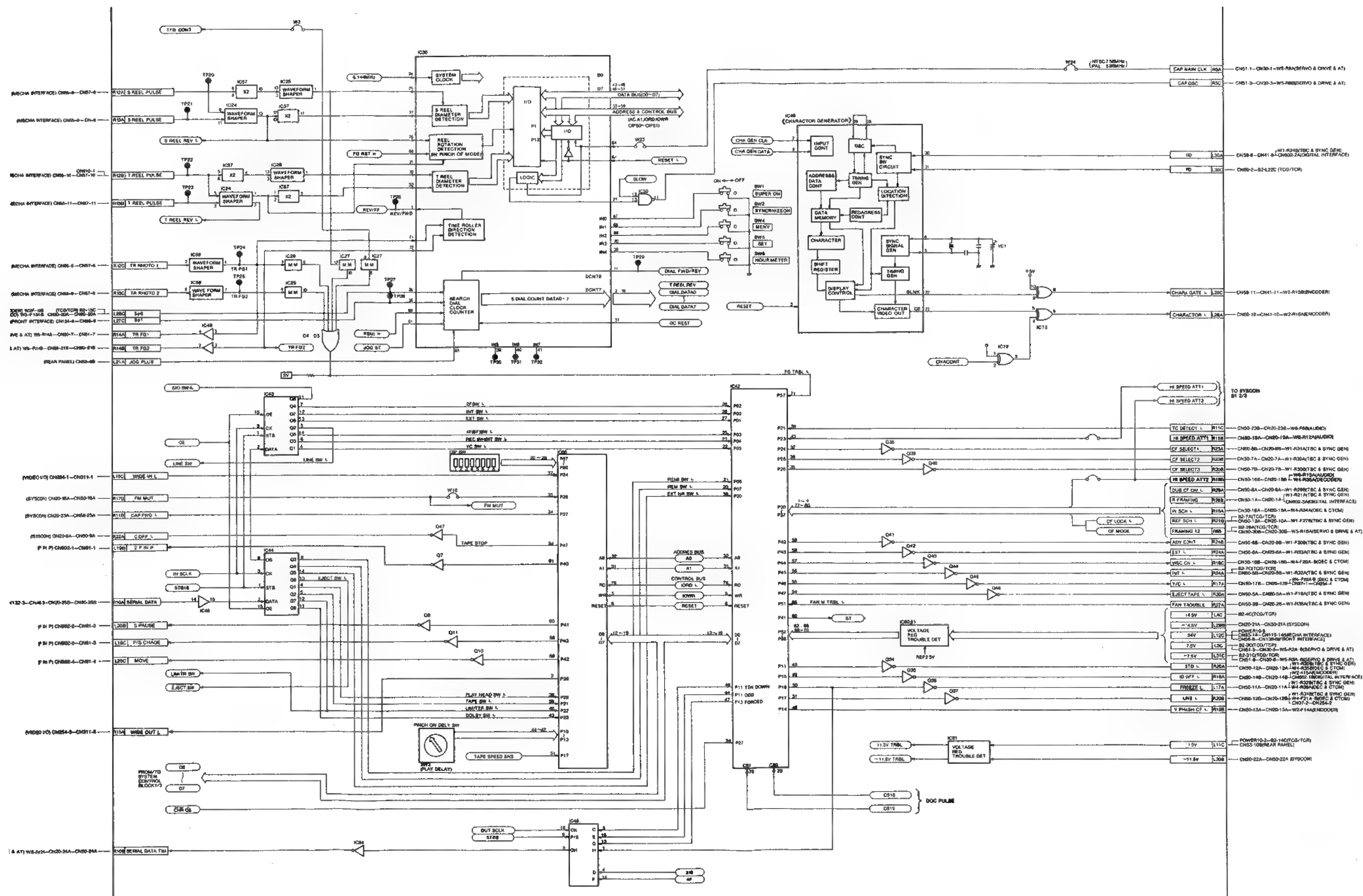




### B1 (SYSTEM CONTROL) BLOCK DIAGRAM 3/3 (GATE ARRAY & I/O S



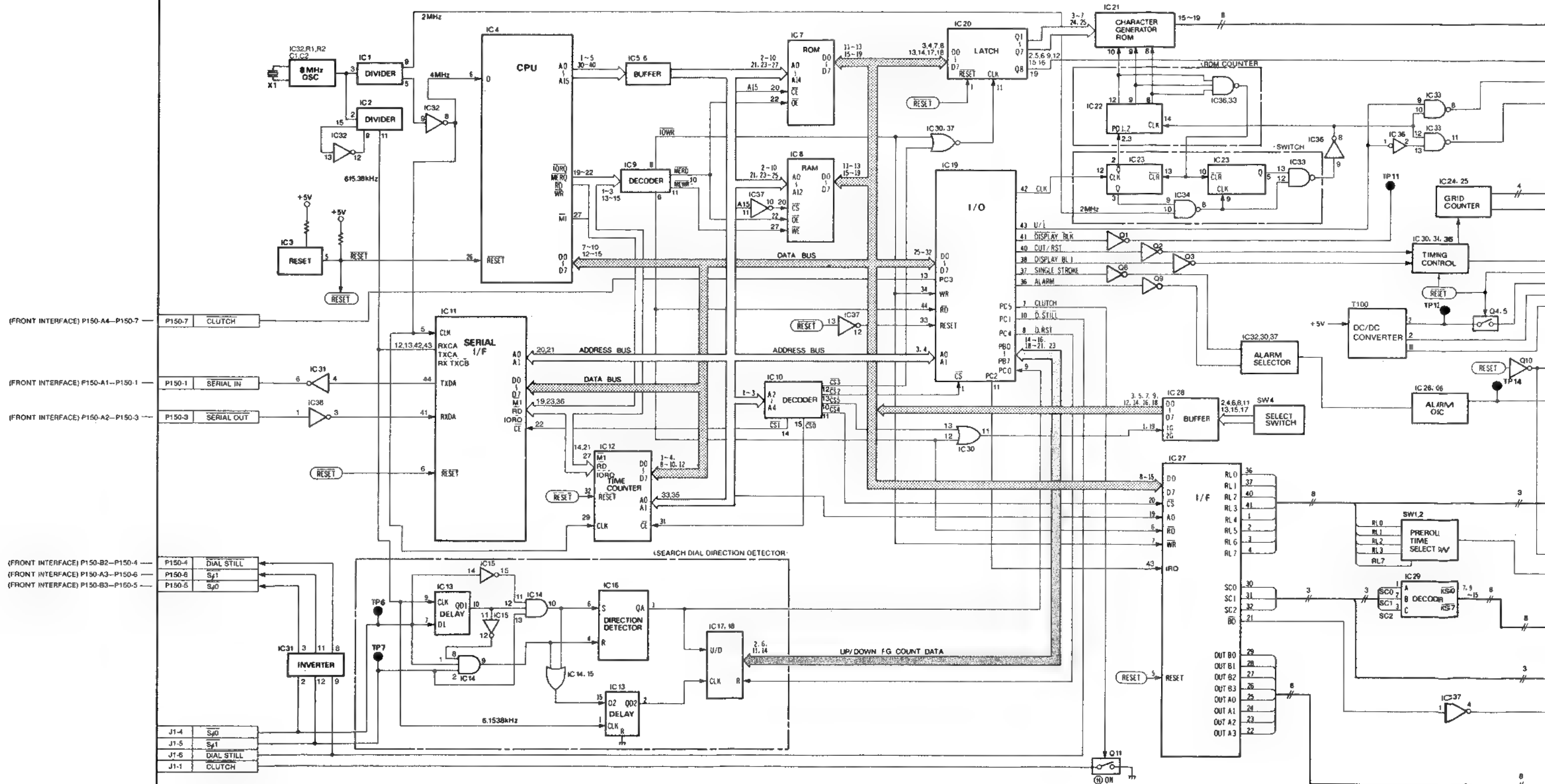
### B1 (SYSTEM CONTROL) BLOCK DIAGRAM 3/3 (GATE ARRY & I/O SECTION)



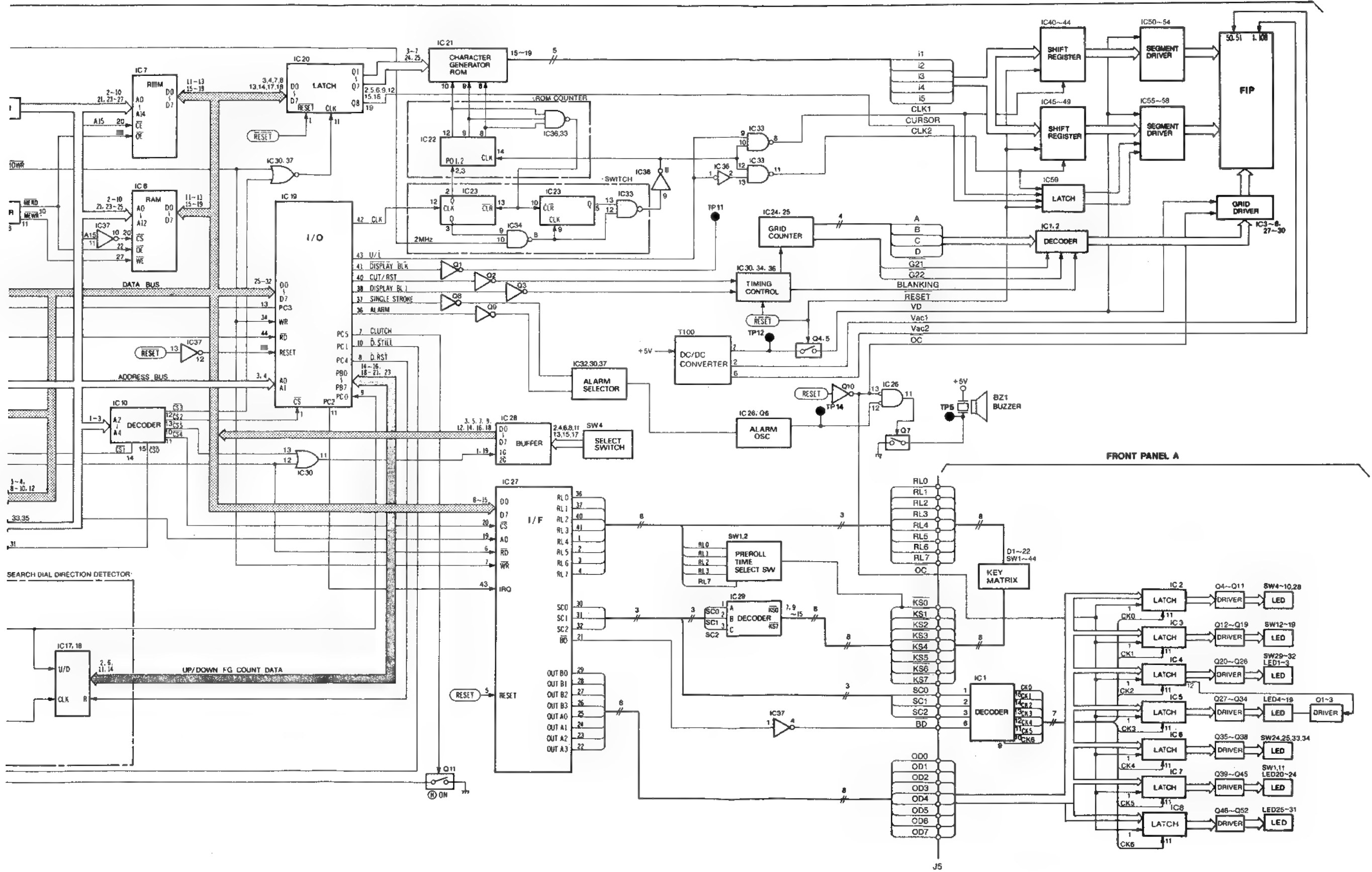


# FRONT PANEL A,B BLOCK DIAGRAM[FOR AU-65H]

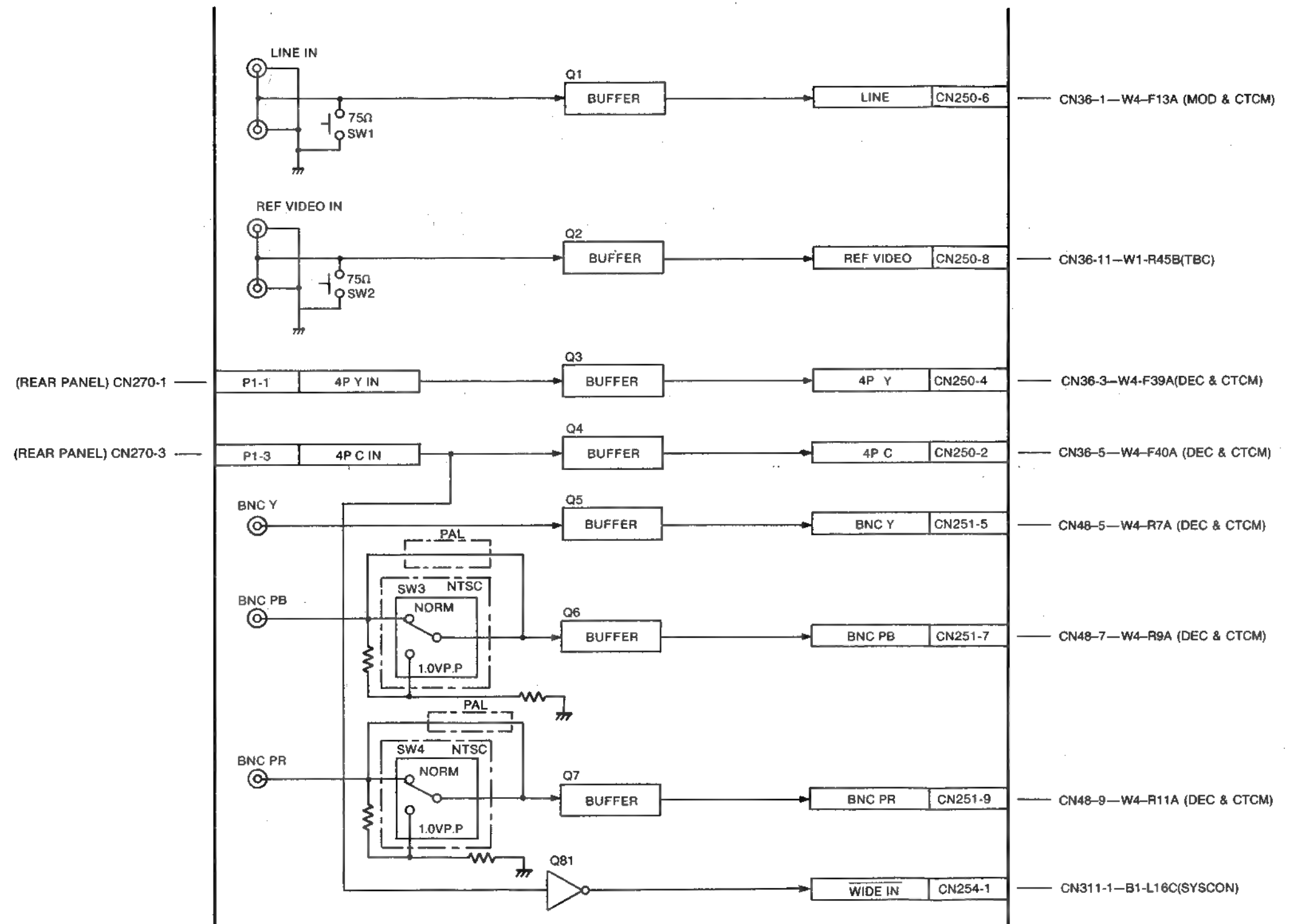
FRONT PANEL ■



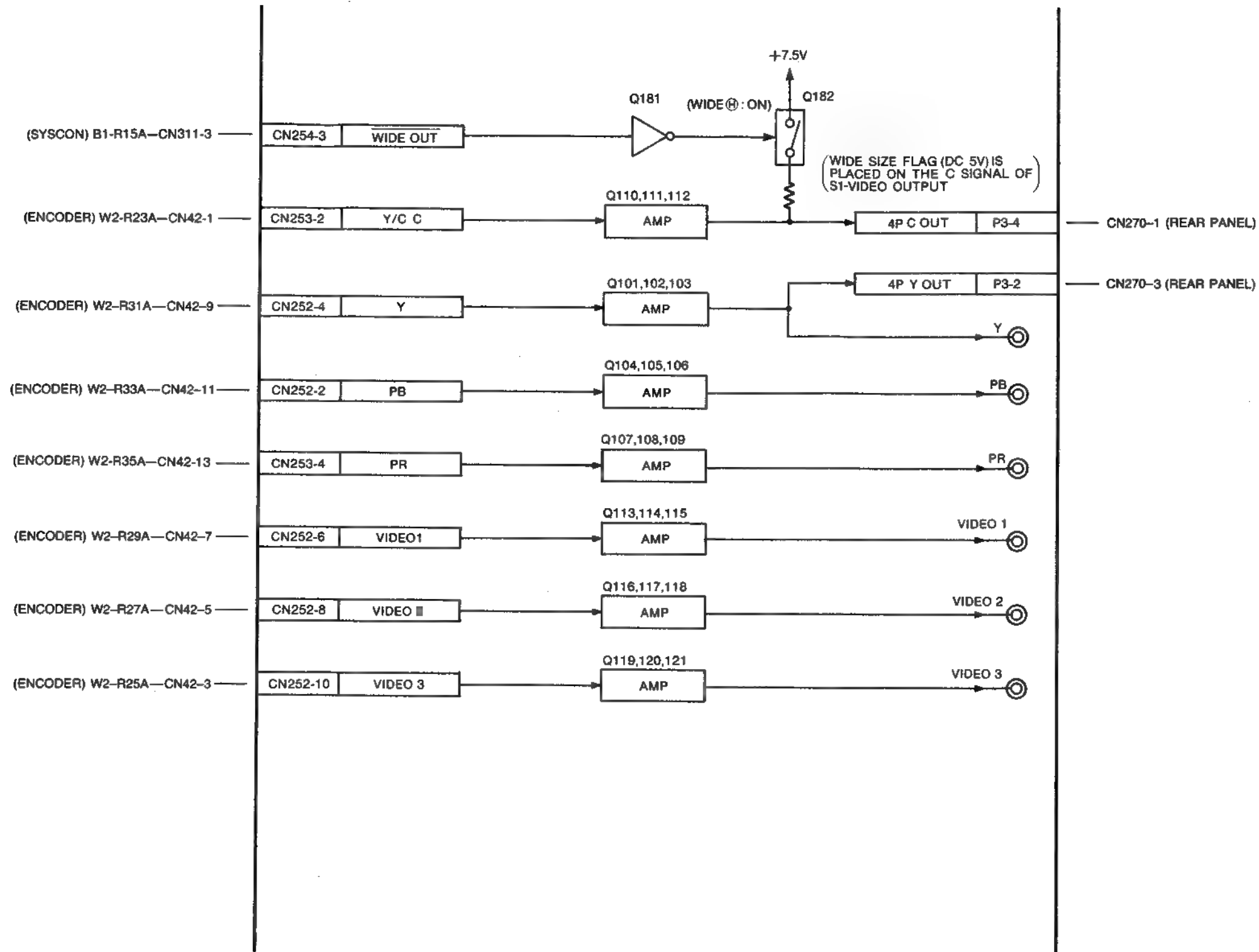
**FRONT PANEL B**



## VIDEO I/O BLOCK DIAGRAM 1/2



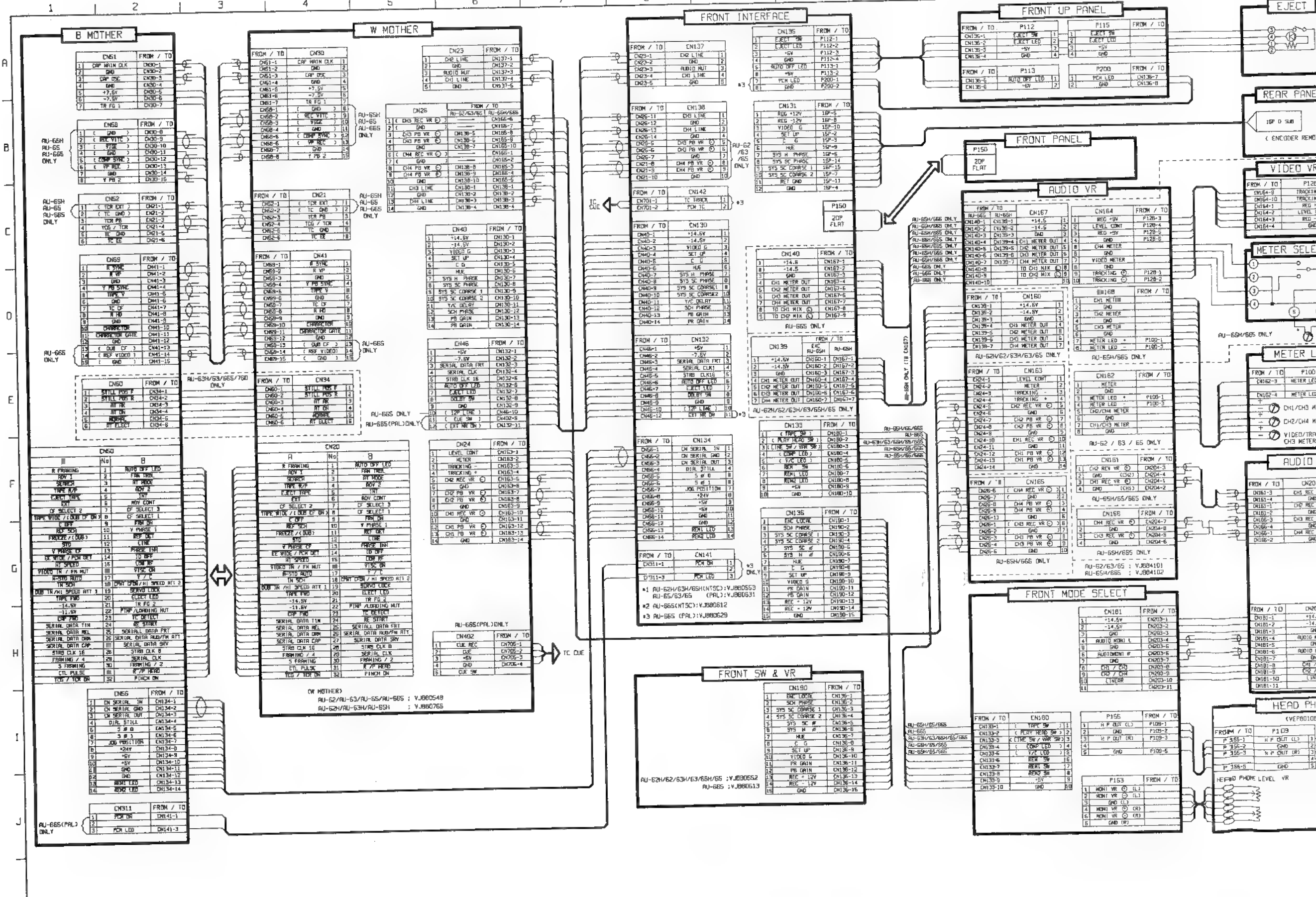
## VIDEO I/O BLOCK DIAGRAM 2/2



## **P.C.BOARD DIAGRAM**

|                                       |        |
|---------------------------------------|--------|
| W0(MOTHER1) P.C.BOARD .....           | SCM-25 |
| W1(TBC & SYNC GEN) P.C.BOARD .....    | SCM-26 |
| W2(ENCODER) P.C.BOARD .....           | SCM-29 |
| W4(DECODER) P.C.BOARD(NTSC) .....     | SCM-30 |
| W4(DECODER) SUB P.C.BOARD .....       | SCM-30 |
| W4(DECODER) P.C.BOARD(PAL) .....      | SCM-33 |
| SENC & P IN P P.C.BOARD .....         | SCM-34 |
| W6(AUDIO) P.C.BOARD .....             | SCM-35 |
| B0(MOTHER2) P.C.BOARD .....           | SCM-36 |
| B1(SYSTEM CONTROL) P.C.BOARD .....    | SCM-36 |
| VIDEO I/O P.C.BOARD .....             | SCM-37 |
| AUDIO I/O P.C.BOARD .....             | SCM-37 |
| FRONT INTERFACE P.C.BOARD .....       | SCM-38 |
| FRONT PANEL A P.C.BOARD(AU-65H) ..... | SCM-38 |
| FRONT PANEL B P.C.BOARD(AU-65H) ..... | SCM-39 |
| METER CHANGE SW P.C.BOARD .....       | SCM-39 |
| METER LAMP P.C.BOARD .....            | SCM-39 |

# INTERCONNECTION 1/4



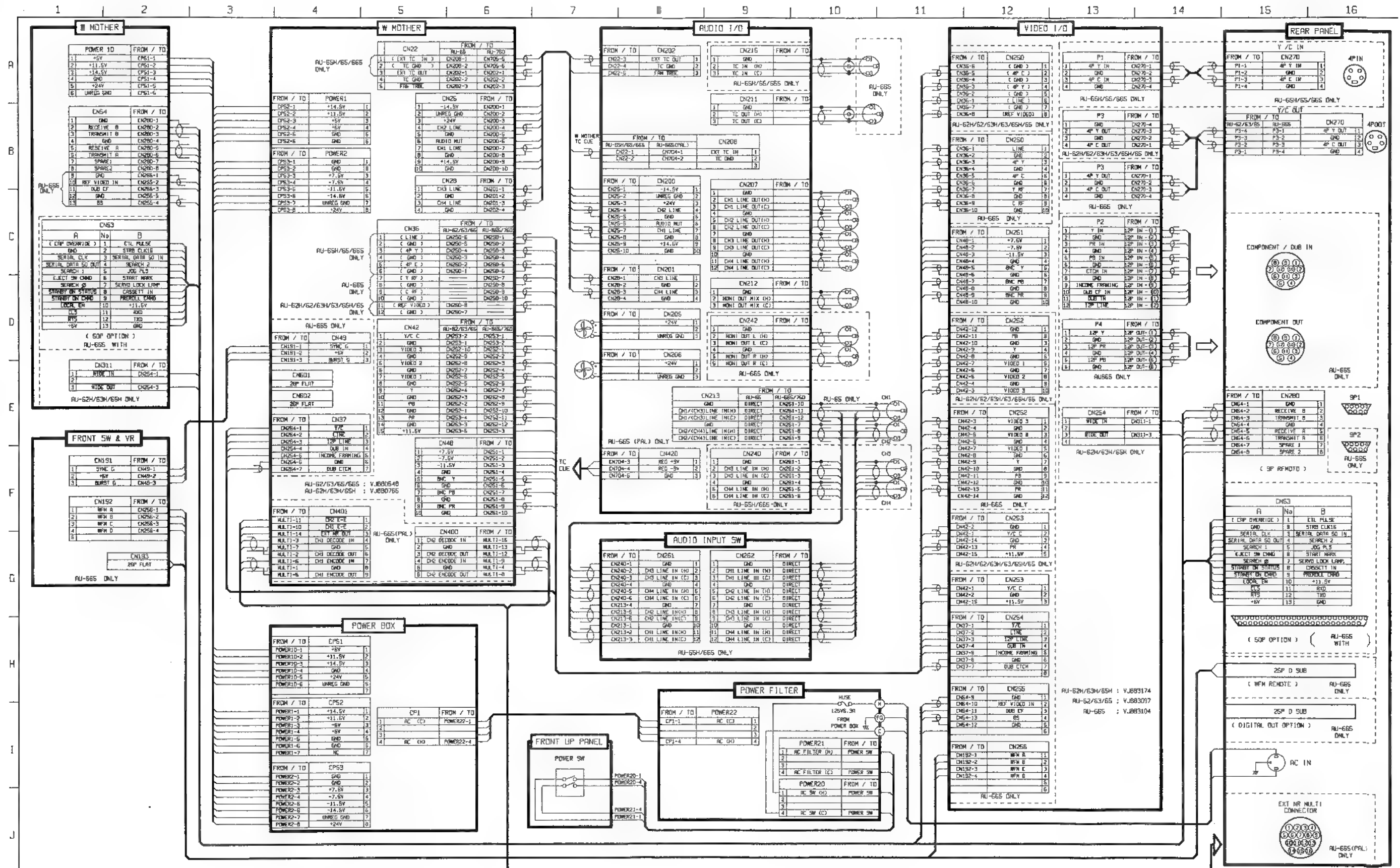




# INTERCONNECTION 3/4

## INTERCONNECTION SCHEMATIC DIAGRAM

# INTER



## REVERSE SIDE INTERCONNECTION SCHEMATIC DIAGRAM

SCM-2



# INTERCONNECTION 4/4

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

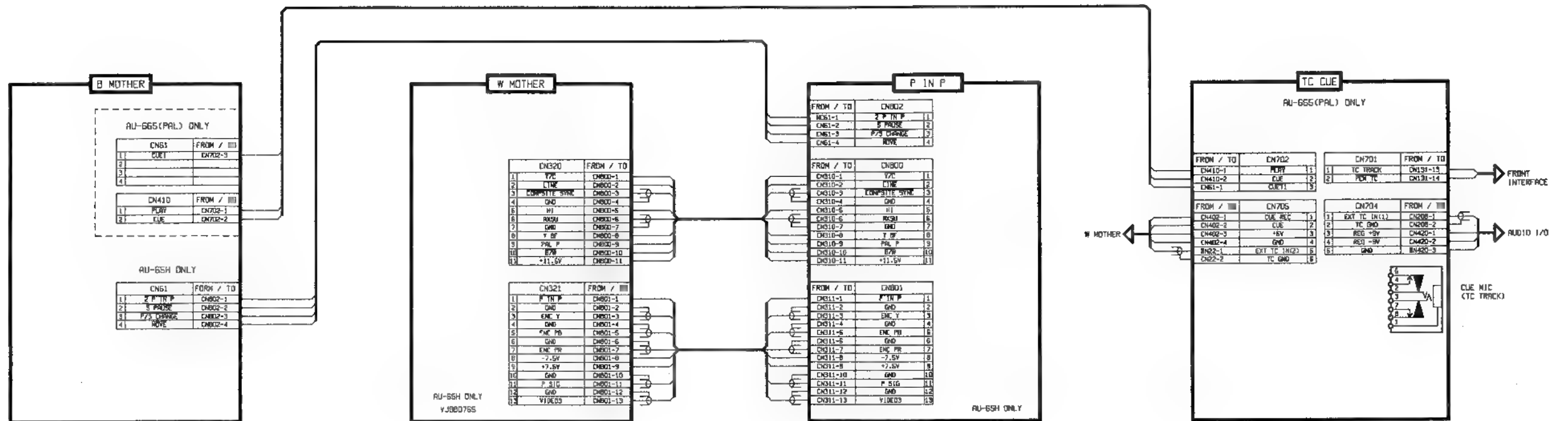


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65  
Y

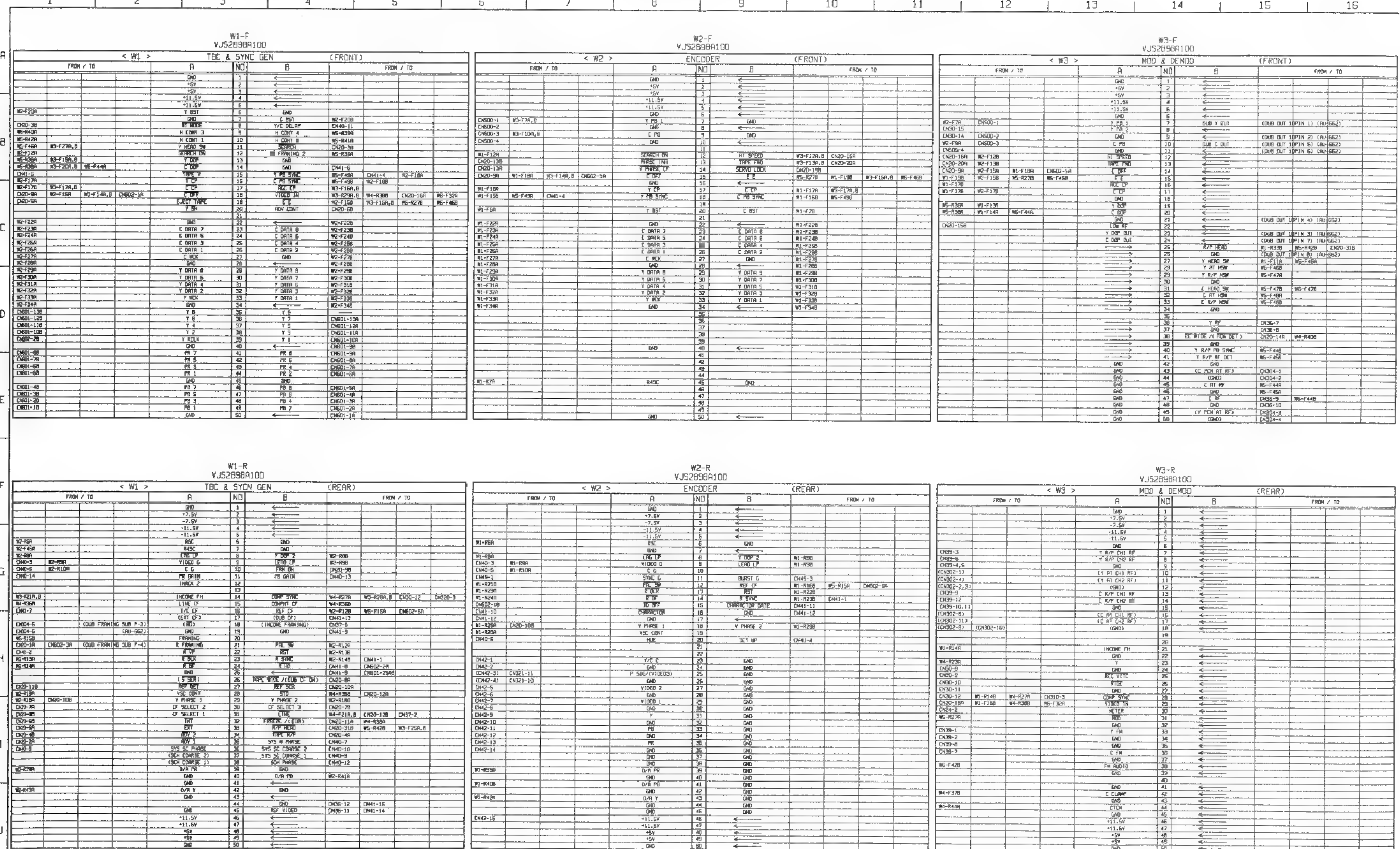
20

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| MODEL TYPE | AU-65H    | AU-63H    | AU-62H    |
|------------|-----------|-----------|-----------|
| NTSC       | VEP80765A | VEP80765C | VEP80765B |
| PAL        | VEP80765A | VEP80765C | VEP80765B |

# WO(W,MOTHER) SCHEMATIC DIAGRAM 1/4



## 16

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14

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16[illegible]

| FROM / TO |         | SERVO & DRIVE |       | SERVO & DRIVE |             | FROM / TO |  |
|-----------|---------|---------------|-------|---------------|-------------|-----------|--|
|           |         | A             | DRIVE | B             |             |           |  |
|           |         | 2ND           | 1     | ←             |             |           |  |
|           |         | +5V           | 8     | ←             |             |           |  |
|           |         | +5V           | 9     | ←             |             |           |  |
|           |         | +11.5V        | 4     | ←             |             |           |  |
|           |         | +11.5V        | 6     | ←             |             |           |  |
| CN15-2    |         | 5 TENSION     | 5     | ←             |             | CN15-3    |  |
| CN15-1    |         | TENSION VCC   | 7     | ←             | TENSION GND | CN15-4    |  |
|           |         | UNREG. GND    | 8     | ←             |             |           |  |
|           |         | 5 HI-         | 9     | ←             | 5 HI+       | CN15-7    |  |
| CN15-5    |         | 5 HI-         | 10    | ←             |             |           |  |
| CN15-6    |         | 5 HI+         | 11    | ←             |             |           |  |
| CN15-8    |         | 5 HI+         | 12    | ←             |             |           |  |
| CN15-9    |         | 5 HI+         | 13    | ←             | 5 HI+       | CN15-11   |  |
| CN15-10   |         | 5 HI+         | 14    | ←             |             |           |  |
| CN15-12   |         | 5 HI+         | 15    | ←             |             |           |  |
| CN15-14   |         | 5 HI+         | 16    | ←             | 5 HI+       | CN15-15   |  |
| CN15-13   |         | 5 HI+         | 17    | ←             |             |           |  |
| CN14-1    |         | 5 HI-         | 18    | ←             | 5 HI+       | CN14-3    |  |
| CN14-2    |         | 5 HI-         | 19    | ←             |             |           |  |
| CN14-4    |         | 5 HI-         | 20    | ←             |             |           |  |
| CN14-5    |         | 5 HI-         | 21    | ←             | 5 HI-       | CN14-7    |  |
| CN14-6    |         | 5 HI-         | 22    | ←             |             |           |  |
| CN14-8    |         | 5 HI-         | 23    | ←             |             |           |  |
| CN14-10   |         | 5 HI-         | 24    | ←             | 5 HI+       | CN14-11   |  |
| CN14-9    |         | UNREG. GND    | 25    | ←             |             |           |  |
|           |         | 5 HI-         | 26    | ←             | 5 HI+       | CN13-3    |  |
| CN13-1    |         | 5 HI-         | 27    | ←             |             |           |  |
| CN13-2    |         | 5 HI-         | 28    | ←             | 5 HI-       | CN13-5    |  |
| CN13-4    |         | 5 HI-         | 29    | ←             |             |           |  |
| CN13-5    |         | 5 HI-         | 30    | ←             |             |           |  |
| CN13-7    |         | 5 HI-         | 31    | ←             | 5 HI-       | CN13-11   |  |
| CN13-9    |         | 5 HI-         | 32    | ←             |             |           |  |
| CN13-8    |         | 5 HI-         | 33    | ←             |             |           |  |
| CN13-10   |         | UNREG. GND    | 34    | ←             |             |           |  |
|           |         | 5 HI+         | 35    | ←             | 5 HI-       | CN12-7    |  |
| CN12-1    |         | 5 HI+         | 36    | ←             | 5 HI-       | CN12-4    |  |
| CN12-3    |         | 5 HI+         | 37    | ←             | 5 HI+       | CN12-5    |  |
| CN12-5    |         | 5 HI+         | 38    | ←             |             |           |  |
| CN12-7    |         | 5 HI+         | 39    | ←             |             |           |  |
| CN12-8    |         | 5 HI+         | 40    | ←             |             |           |  |
| CN12-9    |         | 5 HI+         | 41    | ←             |             |           |  |
| CN12-10   |         | 5 HI+         | 42    | ←             |             |           |  |
| CN12-11   |         | UNREG. GND    | 43    | ←             |             |           |  |
|           |         | 5 HI+         | 44    | ←             | 5 HI+       | CN11-3    |  |
| W3-F45B   |         | 5 HI+         | 45    | ←             | 5 HI+       | CN11-4    |  |
| W3-F46B   |         | 5 HI+         | 46    | ←             | 5 HI+       | CN11-5    |  |
| W3-F27B,B | W1-F11B | 5 HI+         | 47    | ←             | 5 HI+       | CN11-6    |  |
| W3-F29B,B |         | 5 HI+         | 48    | ←             | 5 HI+       | CN11-7    |  |
| W3-F29B,B |         | 5 HI+         | 49    | ←             | 5 HI+       | CN11-8    |  |
| W1-F15B   | CN41-4  | 5 HI+         | 50    | ←             | 5 HI+       | CN11-9    |  |
|           | W2-F10B | 5 HI+         |       |               | 5 HI+       | CN11-10   |  |
|           |         | 5 HI+         |       |               | 5 HI+       | CN11-11   |  |
|           |         | 5 HI+         |       |               | 5 HI+       | CN11-12   |  |
|           |         | 5 HI+         |       |               | 5 HI+       | CN11-13   |  |
|           |         | 5 HI+         |       |               | 5 HI+       | CN11-14   |  |
|           |         | 5 HI+         |       |               | 5 HI+       | CN11-15   |  |
|           |         | 5 HI+         |       |               | 5 HI+       | CN11-16   |  |
|           |         | 5 HI+         |       |               | 5 HI+       | CN11-17   |  |
|           |         | 5 HI+         |       |               | 5 HI+       | CN11-18   |  |
|           |         | 5 HI+         |       |               | 5 HI+       | CN11-19   |  |
|           |         | 5 HI+         |       |               | 5 HI+       | CN11-20   |  |
|           |         | 5 HI+         |       |               | 5 HI+       | CN11-21   |  |
|           |         | 5 HI+         |       |               |             |           |  |

| FROM / TO |                     | B             |    | FROM / TO             |                 |
|-----------|---------------------|---------------|----|-----------------------|-----------------|
| CH402-4   |                     | GND           | 1  | ←                     |                 |
| CH402-3   |                     | +5V           | 2  | ←                     |                 |
|           |                     | +5V           | 3  | ←                     |                 |
|           |                     | +11.5V        | 4  | ←                     |                 |
|           |                     | +11.5V        | 5  | ←                     |                 |
| CH20-30R  |                     | TEMPER ON     | 6  | TC BEEP               | CH20-20R        |
| CH402-1   |                     | CLK REC       | 7  | CLK                   | CH402-2         |
| CH21-3    |                     | TOR PB        | 8  | TOR EXT               | CH21-1          |
| CH21-2,6  |                     | TC GND        | 9  | TGG/TOR               | CH21-4          |
| CH20-3    |                     | EXT TC OUT    | 10 | EXT TC IN             | CH20-1          |
| CH20-4    |                     | TC GND        | 11 | TC GND                | CH20-2          |
|           |                     | GND           | 12 | GND                   |                 |
|           |                     |               | 13 | TC EE                 | CH21-5          |
|           |                     |               | 14 |                       |                 |
|           |                     |               | 15 |                       |                 |
|           |                     |               | 16 |                       |                 |
|           |                     |               | 17 |                       |                 |
|           |                     |               | 18 |                       |                 |
|           |                     |               | 19 |                       |                 |
|           |                     |               | 20 |                       |                 |
|           |                     |               | 21 |                       |                 |
|           |                     |               | 22 |                       |                 |
|           |                     |               | 23 |                       |                 |
|           |                     |               | 24 |                       |                 |
|           |                     |               | 25 |                       |                 |
|           |                     |               | 26 |                       |                 |
|           |                     |               | 27 |                       |                 |
|           |                     |               | 28 |                       |                 |
|           |                     |               | 29 |                       |                 |
|           |                     |               | 30 |                       |                 |
|           | (G1 CH410-3) JUMPER | TAPE IN TR    | 31 | SEARCH                | (W5-4130) JAFKO |
|           |                     | GND           | 32 | GND                   |                 |
| W1-F100   | W3-R230,B           | FM MUT        | 33 | GND                   |                 |
|           |                     | GND           | 34 | GND                   |                 |
| CH20-2,6  |                     | GND           | 35 | CH2 REC VR (C)        | CH20-1          |
| CH20-4    |                     | CH2 PB VR (C) | 36 | CH2 PB VR (C)         | CH20-3          |
| CH20-1,2  | CH20-2              | GND           | 37 | CH2 LINE              | CH20-11         |
|           |                     | GND           | 38 | GND                   |                 |
| CH20-7,10 |                     | GND           | 39 | CH2 REC VR (C)        | CH20-8          |
| CH20-8    |                     | CH4 PB VR (C) | 40 | CH4 PB VR (C)         | CH20-9          |
| CH20-14   | CH20-4              | GND           | 41 | CH4 LINE              | CH20-13         |
|           |                     | GND           | 42 | GND                   | CH20-3          |
|           |                     | GND           | 43 | FM AUDIO              | W3-R300,B       |
|           |                     | GND           | 44 | C RF                  |                 |
| W1-F140   | W3-F200,B           | RECORD        | 45 | DAC                   | W3-F470         |
|           |                     | RECORD        | 46 | RE                    | CH20-2          |
| W3-R130   | CH21-7              | GND           | 47 | C MEXO SW             | W1-F130         |
|           |                     | SERIAL CLK    | 48 | SERIAL DATA BUS/TA AT | W3-F130,B       |
| W3-R200   | CH20-20R            | STRO CLK 16   | 49 |                       | W3-F310,B       |
| W3-R100   | CH20-20R            | GND           | 50 |                       | W3-R270         |

[illegible]

| FROM / TO  |            | A        |                  | B  |   | FROM / TO |            |
|------------|------------|----------|------------------|----|---|-----------|------------|
| DN30-2     | DN31-4     |          | QND              | 1  | < | DN30-4    |            |
| DN31-3     | DN30-5     |          | 7.5V             | 2  | < |           |            |
| DN31-6     | DN30-6     | DN46-2   | 7.5V             | 3  | < |           |            |
| DN30-8     |            |          | 11.5V            | 4  | < |           |            |
| DN31-5     | EN40-2     |          | 14.5V            | 5  | < |           |            |
| DN35-16,11 |            |          | UNREG. GND       | 6  | < |           |            |
| DN20-30A   |            |          | 5 TRIMING        | 7  | < |           |            |
| DN20-27A   |            |          | DATA PRGR CLK    | 8  | < |           |            |
| DN20-25A   |            |          | SERIAL DATA CAP  | 9  | < | DN20-3    |            |
| DN20-26A   |            |          | SERIAL DATA REL  | 10 | < | DN20-29A  | WE-F43R    |
| DN20-24R   |            |          | SERIAL DATA      | 11 | < | DN20-28B  | DN46-5     |
| DN20-3     |            |          | SERIAL DATA      | 12 | < | DN20-28B  |            |
| DN20-2     |            |          | S SERIAL FUSE 1  | 13 | < | DN20-27B  |            |
| DN20-7     |            |          | TR FG 1          | 14 | < | EN400-1   |            |
| W1-215B    | W2-212B    | DN202-6R | REF D2           | 15 | < | W1-220R   |            |
| DN20-30B   |            |          | FRAMING / 2      | 16 | < | DN20-29B  |            |
| DN2-4      |            |          | TRIMMING         | 17 | < | DN20-29B  |            |
| DN2-3      |            |          | TRIMMING         | 18 | < | DN20-21B  |            |
| DN21-5     | DN20-24B   |          | REC. DATA        | 19 | < | DN21-7    | WE-F45A    |
| DN21-8     |            |          | REC. CH1 SW      | 20 | < | DN21-10   |            |
| DN21-12    |            |          | Y CH1 REC SW     | 21 | < | DN21-14   |            |
| DN21-13    |            |          | Y CH2 REC SW     | 22 | < | DN21-15   |            |
| DN200-1    |            |          | (Y CH1 PCM GATE) | 23 | < | DN200-4   |            |
| DN200-2    |            |          | (Y CH2 PCM GATE) | 24 | < | DN200-5   |            |
| W4-29A     |            |          | (PCM H2ND)       | 25 | < | DN200-1   |            |
| W4-30A     |            |          | (DUB C DOP)      | 26 | < | DN200-2   |            |
| W3-231A, B |            |          | ND               | 27 | < | W4-44B    | W2-15B     |
| DN200-3    |            |          | CHP ENVELOPE     | 28 | < | DN17-1    | W1-13B     |
| DN200-3, 6 | DN201-3    |          | QND              | 29 | < | DN17-2    | W3-115B, B |
| DN217-5    |            |          | CAP V FG +       | 30 | < | DN17-3    |            |
| DN17-6     |            |          | CAP FG 1         | 31 | < | DN17-4    |            |
| DN17-7     |            |          | QND              | 32 | < | DN2-2     |            |
| DN17-8     |            |          | CAP FG 2         | 33 | < | DN2-1     |            |
|            |            |          | QND              | 34 | < | DN2-2     |            |
| W1-12B     |            |          | FB FRAMING 2     | 35 | < | DN2-3     |            |
| W1-13R     | W3-133R, B |          | Y DOP            | 36 | < | DN2-4     |            |
|            |            |          | QND              | 37 | < | DN2-5     |            |
| W1-14R     | W3-220R, B | W5-F44R  | TRIP             | 38 | < | DN20-29B  |            |
| W1-15B     |            |          | H CONT 1         | 39 | < | DN2-6     |            |
| W1-15R     |            |          | H CONT 3         | 38 | < | DN2-5     |            |
| W1-10B     |            |          | H CONT 2         | 41 | < | DN2-6     |            |
| W1-10R     |            |          | H CONT 1         | 42 | < | W1-220R   | W3-25A, B  |
| DN2-1      |            |          | UP MONIT         | 43 | < | DN2-1     | DN20-31B   |
| DN2-3      |            |          | REF. PATTERN (A) | 44 | < | DN2-2     |            |
| DN2-4      |            |          | QND              | 45 | < | DN2-5     |            |
| DN2-1      | DN2-7      | EN40-1   | 14.5V            | 46 | < | DN2-6     |            |
| DN21-2     | DN25-9     |          | 11.5V            | 47 | < |           |            |
|            |            |          | 7.5V             | 48 | < |           |            |
|            |            |          | GND              | 49 | < |           |            |
|            |            |          | 5V               | 50 | < |           |            |

| FROM / TO  |         | A              |    | B |                   | FROM / TO |        |
|------------|---------|----------------|----|---|-------------------|-----------|--------|
|            |         | GND            | 1  | ← |                   |           |        |
|            |         | +7.5V          | 2  | ← |                   |           |        |
|            |         | -7.5V          | 3  | ← |                   |           |        |
|            |         | -11.5V         | 4  | ← |                   |           |        |
| DN25-1     |         | -14.5V         | 5  | ← |                   |           |        |
| DN25-2     |         | UNREG GND      | 6  | ← |                   |           |        |
| DN25-3     |         | +5V            | 7  | ← |                   |           |        |
|            |         | GND            | 8  | ← | GND               |           |        |
| DN9-1      |         | F/E HERO (+)   | 9  | ← | F/E HERO (-)      | DN9-2     |        |
| DN9-3      |         | F/E HERO GND   | 10 | ← |                   |           |        |
|            |         | GND            | 11 | ← |                   |           |        |
| DN20-13A   | DN27-4  | HI SPEED RIT 1 | 12 | ← | DN27 SW           | DN46-8    |        |
| DN20-10B   | W4-836A | HI SPEED RIT 2 | 13 | ← | FLTP FLOODING MUT | DN20-22B  | DN21-1 |
|            |         | GND            | 14 | ← | GND               |           |        |
|            |         |                | 15 | ← |                   |           |        |
|            |         |                | 16 | ← |                   |           |        |
|            |         |                | 17 | ← |                   |           |        |
|            |         |                | 18 | ← |                   |           |        |
|            |         |                | 19 | ← |                   |           |        |
|            |         |                | 20 | ← |                   |           |        |
|            |         |                | 21 | ← |                   |           |        |
|            |         |                | 22 | ← |                   |           |        |
|            |         |                | 23 | ← |                   |           |        |
|            |         |                | 24 | ← |                   |           |        |
|            |         |                | 25 | ← |                   |           |        |
|            |         |                | 26 | ← |                   |           |        |
|            |         |                | 27 | ← |                   |           |        |
|            |         | GND            | 28 | ← | GND               |           |        |
| DN400-2    |         | GND            | 29 | ← | DN2 DECODE IN     | DN400-1   |        |
|            |         | GND            | 30 | ← | DN2 DECODE OUT    | DN400-3   |        |
| DN400-5    |         | GND            | 31 | ← | DN2 ENCODE IN     | DN400-4   |        |
|            |         | GND            | 32 | ← | DN2 ENCODE OUT    | DN400-6   |        |
| DN24-6,9   |         | GND            | 33 | ← | DN2 REC VR (-)    | DN24-6    |        |
| DN24-8     |         | DN2 PB VR (+)  | 34 | ← | DN2 PB VR (-)     | DN24-7    |        |
| DN23-2     | DN25-5  | GND            | 35 | ← | DN2 LINE          | DN25-4    |        |
| DN23-3     | DN25-6  | RGTS MUT       | 36 | ← | DN2 L2            | DN21-1    |        |
| DN401-3    |         | CH1 NR MUT     | 37 | ← | DN2 E2S           | DN401-2   |        |
| DN46-12    |         | EXT NR IN      | 38 | ← | CH1 DECODE IN     | DN401-4   |        |
| DN401-5    |         | GND            | 39 | ← | CH1 DECODE OUT    | DN401-8   |        |
| DN401-6    |         | GND            | 40 | ← | CH1 ENCODE IN     | DN401-7   |        |
|            |         | GND            | 41 | ← | CH1 ENCODE OUT    | DN401-9   |        |
|            |         | GND            | 42 | ← | CH1 REC VR (-)    | DN24-10   |        |
| DN24-11,14 |         | CH1 PB VR (+)  | 43 | ← | CH1 PB VR (-)     | DN24-12   |        |
| DN24-13    |         | GND            | 44 | ← | CH1 LINE          | DN25-7    | DN25-4 |
| DN23-5     | DN25-8  | GND            | 45 | ← |                   |           |        |
|            |         | GND            | 46 | ← |                   |           |        |
| DN303-1    | DN25-5  | +14.5V         | 47 | ← |                   | DN25-9    |        |
| DN303-2    |         | +11.5V         | 48 | ← |                   |           |        |
|            |         | +5V            | 49 | ← |                   |           |        |
|            |         | +5V            | 50 | ← |                   |           |        |
| DN303-3    |         | GND            | 51 | ← |                   | DN25-10   |        |



# WO(W,MOTHER) SCHEMATIC DIAGRAM 4/4

6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ONLY)

## B MOTHER

VJP1232T

| CN21 |           | FROM / TO |
|------|-----------|-----------|
| 1    | CLK (L2T) | W5-F100   |
| 2    | CLK (L2T) | W5-F100   |
| 3    | CLK (L2T) | W5-F100   |
| 4    | CLK (L2T) | W5-F100   |
| 5    | CLK (L2T) | W5-F100   |
| 6    | CLK (L2T) | W5-F100   |

VJP1932T

| CN30 |           | FROM / TO |
|------|-----------|-----------|
| 1    | CLK (L2T) | W5-F100   |
| 2    | CLK (L2T) | W5-F100   |
| 3    | CLK (L2T) | W5-F100   |
| 4    | CLK (L2T) | W5-F100   |
| 5    | CLK (L2T) | W5-F100   |
| 6    | CLK (L2T) | W5-F100   |
| 7    | CLK (L2T) | W5-F100   |
| 8    | CLK (L2T) | W5-F100   |
| 9    | CLK (L2T) | W5-F100   |
| 10   | CLK (L2T) | W5-F100   |
| 11   | CLK (L2T) | W5-F100   |
| 12   | CLK (L2T) | W5-F100   |
| 13   | CLK (L2T) | W5-F100   |
| 14   | CLK (L2T) | W5-F100   |
| 15   | CLK (L2T) | W5-F100   |

VJP1234T

| CN34 |           | FROM / TO |
|------|-----------|-----------|
| 1    | CLK (L2T) | W5-F100   |
| 2    | CLK (L2T) | W5-F100   |
| 3    | CLK (L2T) | W5-F100   |
| 4    | CLK (L2T) | W5-F100   |
| 5    | CLK (L2T) | W5-F100   |
| 6    | CLK (L2T) | W5-F100   |

VJP1932T

| CN41 |           | FROM / TO |
|------|-----------|-----------|
| 1    | CLK (L2T) | W5-F100   |
| 2    | CLK (L2T) | W5-F100   |
| 3    | CLK (L2T) | W5-F100   |
| 4    | CLK (L2T) | W5-F100   |
| 5    | CLK (L2T) | W5-F100   |
| 6    | CLK (L2T) | W5-F100   |
| 7    | CLK (L2T) | W5-F100   |
| 8    | CLK (L2T) | W5-F100   |
| 9    | CLK (L2T) | W5-F100   |
| 10   | CLK (L2T) | W5-F100   |
| 11   | CLK (L2T) | W5-F100   |
| 12   | CLK (L2T) | W5-F100   |
| 13   | CLK (L2T) | W5-F100   |
| 14   | CLK (L2T) | W5-F100   |
| 15   | CLK (L2T) | W5-F100   |

VJP1230T

| CN600 |           | FROM / TO |
|-------|-----------|-----------|
| 1     | CLK (L2T) | W5-F100   |
| 2     | CLK (L2T) | W5-F100   |
| 3     | CLK (L2T) | W5-F100   |

VJP2893A064

| CN20 |           | FROM / TO |
|------|-----------|-----------|
| 1    | CLK (L2T) | W5-F100   |
| 2    | CLK (L2T) | W5-F100   |
| 3    | CLK (L2T) | W5-F100   |
| 4    | CLK (L2T) | W5-F100   |
| 5    | CLK (L2T) | W5-F100   |
| 6    | CLK (L2T) | W5-F100   |
| 7    | CLK (L2T) | W5-F100   |
| 8    | CLK (L2T) | W5-F100   |
| 9    | CLK (L2T) | W5-F100   |
| 10   | CLK (L2T) | W5-F100   |
| 11   | CLK (L2T) | W5-F100   |
| 12   | CLK (L2T) | W5-F100   |
| 13   | CLK (L2T) | W5-F100   |
| 14   | CLK (L2T) | W5-F100   |
| 15   | CLK (L2T) | W5-F100   |
| 16   | CLK (L2T) | W5-F100   |
| 17   | CLK (L2T) | W5-F100   |
| 18   | CLK (L2T) | W5-F100   |
| 19   | CLK (L2T) | W5-F100   |
| 20   | CLK (L2T) | W5-F100   |
| 21   | CLK (L2T) | W5-F100   |
| 22   | CLK (L2T) | W5-F100   |
| 23   | CLK (L2T) | W5-F100   |
| 24   | CLK (L2T) | W5-F100   |
| 25   | CLK (L2T) | W5-F100   |
| 26   | CLK (L2T) | W5-F100   |
| 27   | CLK (L2T) | W5-F100   |
| 28   | CLK (L2T) | W5-F100   |
| 29   | CLK (L2T) | W5-F100   |
| 30   | CLK (L2T) | W5-F100   |
| 31   | CLK (L2T) | W5-F100   |
| 32   | CLK (L2T) | W5-F100   |

## DIGITAL INTERFACE

(AU-665/760 OPTION)

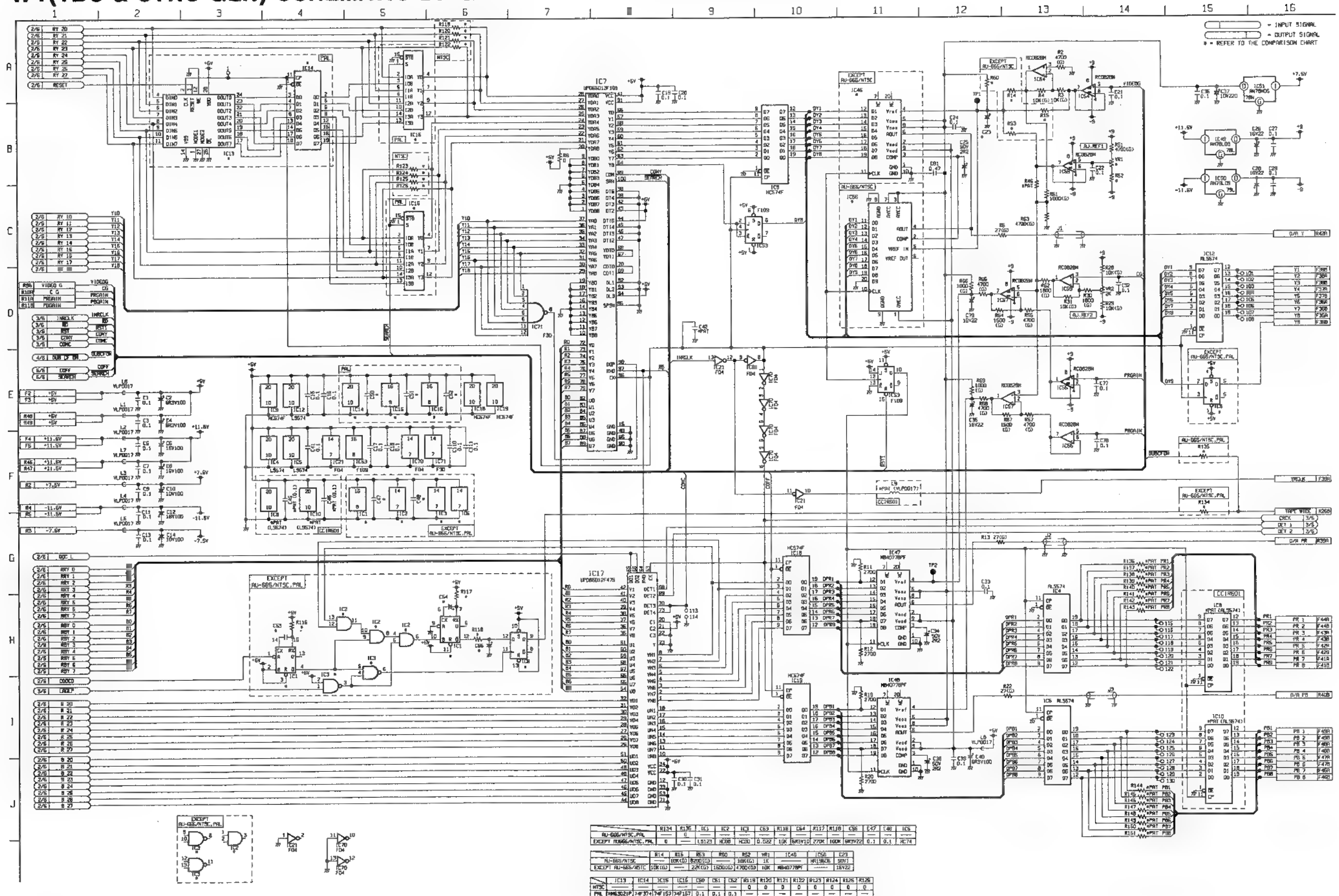
| CN601 |           | FROM / TO |
|-------|-----------|-----------|
| 1     | CLK (L2T) | W5-F100   |
| 2     | CLK (L2T) | W5-F100   |
| 3     | CLK (L2T) | W5-F100   |
| 4     | CLK (L2T) | W5-F100   |
| 5     | CLK (L2T) | W5-F100   |
| 6     | CLK (L2T) | W5-F100   |
| 7     | CLK (L2T) | W5-F100   |
| 8     | CLK (L2T) | W5-F100   |
| 9     | CLK (L2T) | W5-F100   |
| 10    | CLK (L2T) | W5-F100   |
| 11    | CLK (L2T) | W5-F100   |
| 12    | CLK (L2T) | W5-F100   |
| 13    | CLK (L2T) | W5-F100   |
| 14    | CLK (L2T) | W5-F100   |
| 15    | CLK (L2T) | W5-F100   |
| 16    | CLK (L2T) | W5-F100   |
| 17    | CLK (L2T) | W5-F100   |
| 18    | CLK (L2T) | W5-F100   |
| 19    | CLK (L2T) | W5-F100   |
| 20    | CLK (L2T) | W5-F100   |
| 21    | CLK (L2T) | W5-F100   |
| 22    | CLK (L2T) | W5-F100   |
| 23    | CLK (L2T) | W5-F100   |
| 24    | CLK (L2T) | W5-F100   |
| 25    | CLK (L2T) | W5-F100   |
| 26    | CLK (L2T) | W5-F100   |
| 27    | CLK (L2T) | W5-F100   |
| 28    | CLK (L2T) | W5-F100   |
| 29    | CLK (L2T) | W5-F100   |
| 30    | CLK (L2T) | W5-F100   |
| 31    | CLK (L2T) | W5-F100   |
| 32    | CLK (L2T) | W5-F100   |

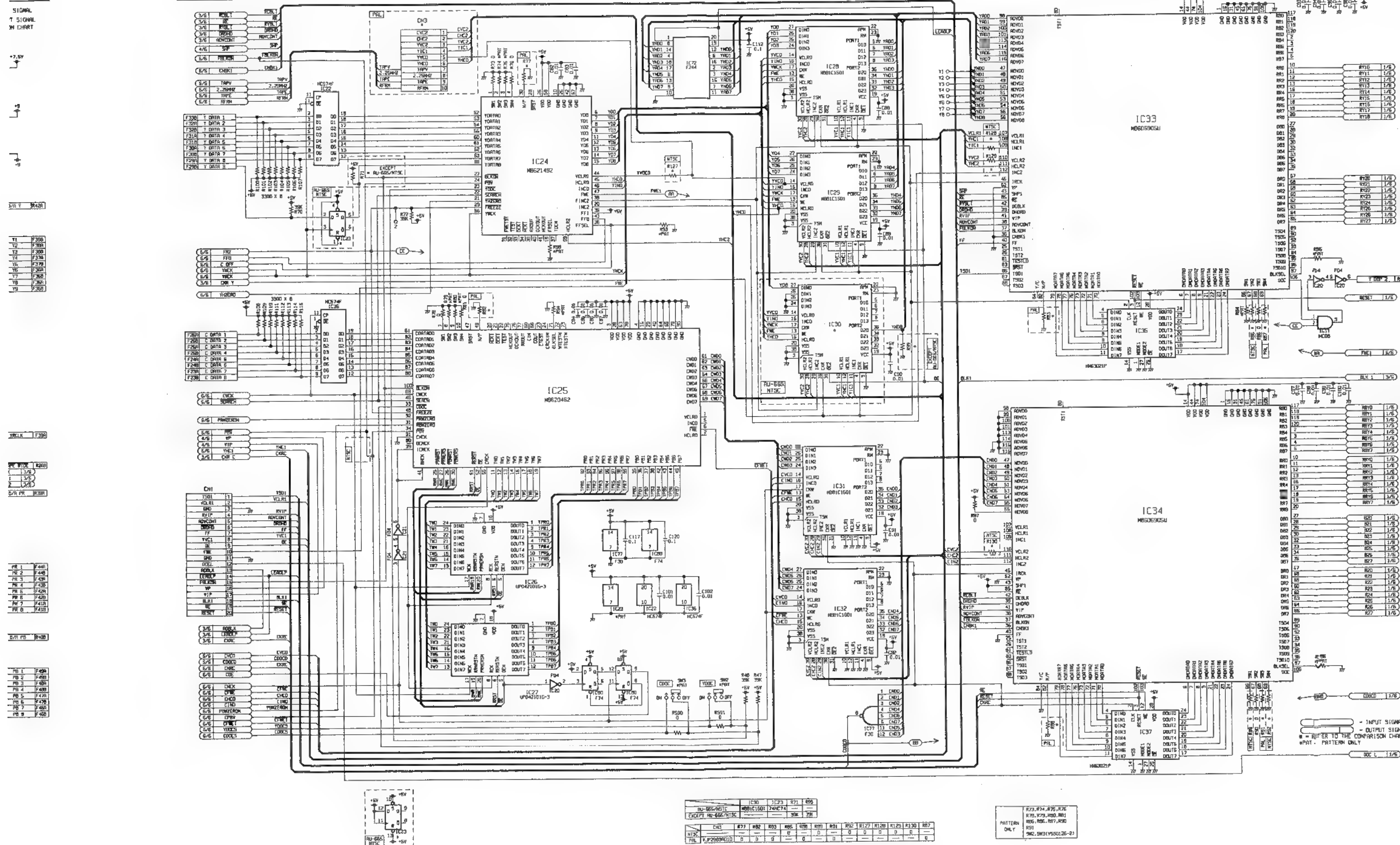
| CN602 |           | FROM / TO |
|-------|-----------|-----------|
| 1     | CLK (L2T) | W5-F100   |
| 2     | CLK (L2T) | W5-F100   |
| 3     | CLK (L2T) | W5-F100   |
| 4     | CLK (L2T) | W5-F100   |
| 5     | CLK (L2T) | W5-F100   |
| 6     | CLK (L2T) | W5-F100   |
| 7     | CLK (L2T) | W5-F100   |
| 8     | CLK (L2T) | W5-F100   |
| 9     | CLK (L2T) | W5-F100   |
| 10    | CLK (L2T) | W5-F100   |
| 11    | CLK (L2T) | W5-F100   |
| 12    | CLK (L2T) | W5-F100   |
| 13    | CLK (L2T) | W5-F100   |
| 14    | CLK (L2T) | W5-F100   |
| 15    | CLK (L2T) | W5-F100   |
| 16    | CLK (L2T) | W5-F100   |
| 17    | CLK (L2T) | W5-F100   |
| 18    | CLK (L2T) | W5-F100   |
| 19    | CLK (L2T) | W5-F100   |
| 20    | CLK (L2T) | W5-F100   |
| 21    | CLK (L2T) | W5-F100   |
| 22    | CLK (L2T) | W5-F100   |
| 23    | CLK (L2T) | W5-F100   |
| 24    | CLK (L2T) | W5-F100   |
| 25    | CLK (L2T) | W5-F100   |
| 26    | CLK (L2T) | W5-F100   |
| 27    | CLK (L2T) | W5-F100   |
| 28    | CLK (L2T) | W5-F100   |
| 29    | CLK (L2T) | W5-F100   |
| 30    | CLK (L2T) | W5-F100   |
| 31    | CLK (L2T) | W5-F100   |
| 32    | CLK (L2T) | W5-F100   |



| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  | VEP88091A | VEP88091A | VEP88091A |
| NTSC  | VEP88091C | VEP88091C | VEP88091C |
| PAL   | VEP88091C | VEP88091C | VEP88091C |

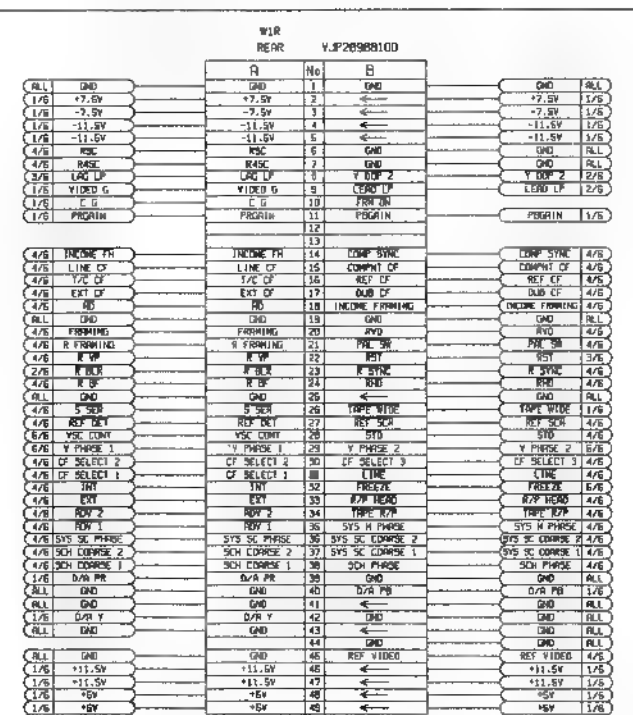
# W1(TBC & SYNC GEN) SCHEMATIC DIAGRAM 1/6







| MODEL<br>TYPE | AU-65H    | AU-63H    | AU-62H    |
|---------------|-----------|-----------|-----------|
| NTSC          | VEP88091A | VEP88091A | VEP88091A |
| PAL           | VEP88091C | VEP88091C | VEP88091C |

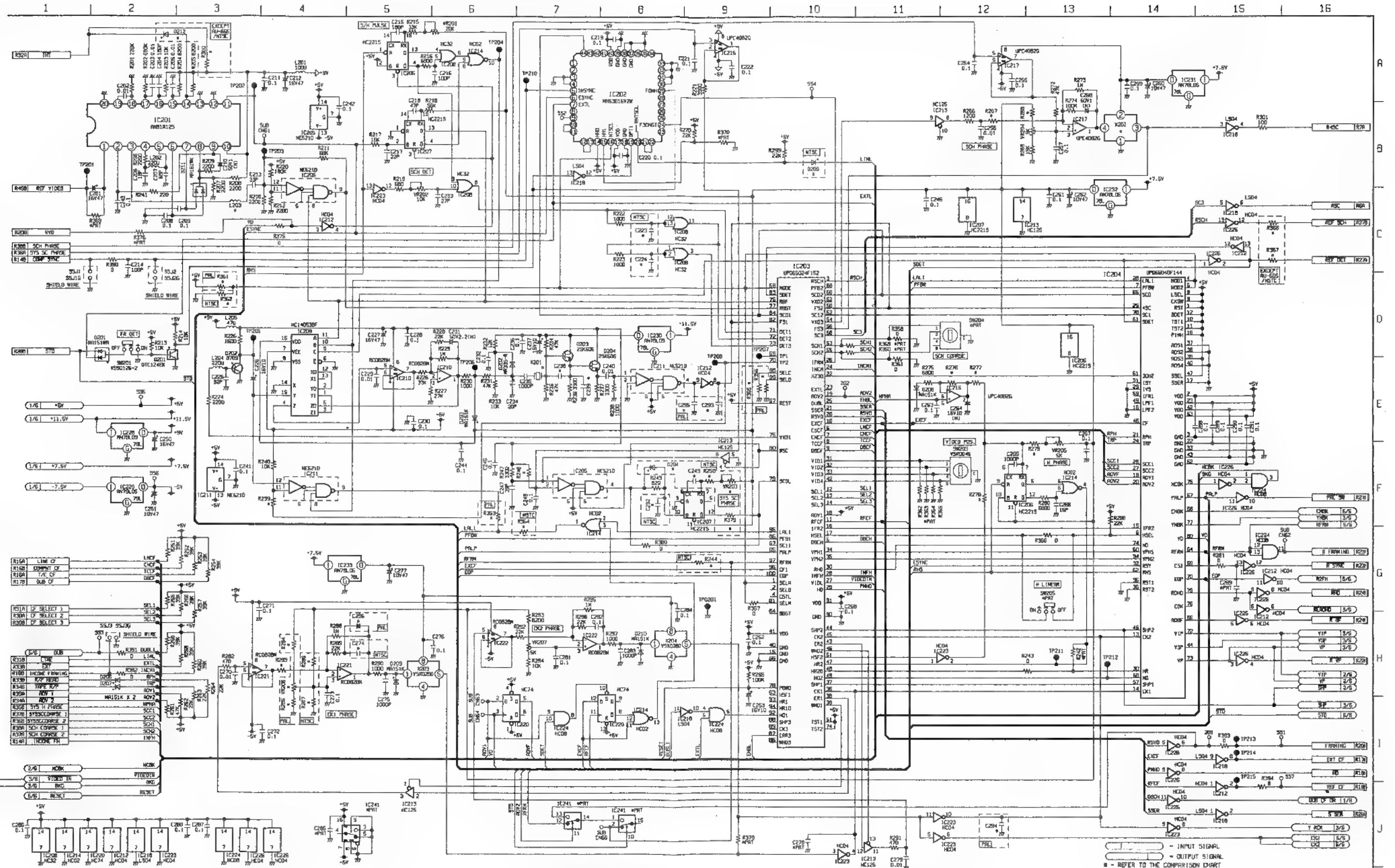
|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|



 = INPUT SIGNAL  
 = OUTPUT SIGNAL  
 \* = REFER TO THE COMPARISON CHARACTERISTICS  
 #PAT = PATTERN ONLY

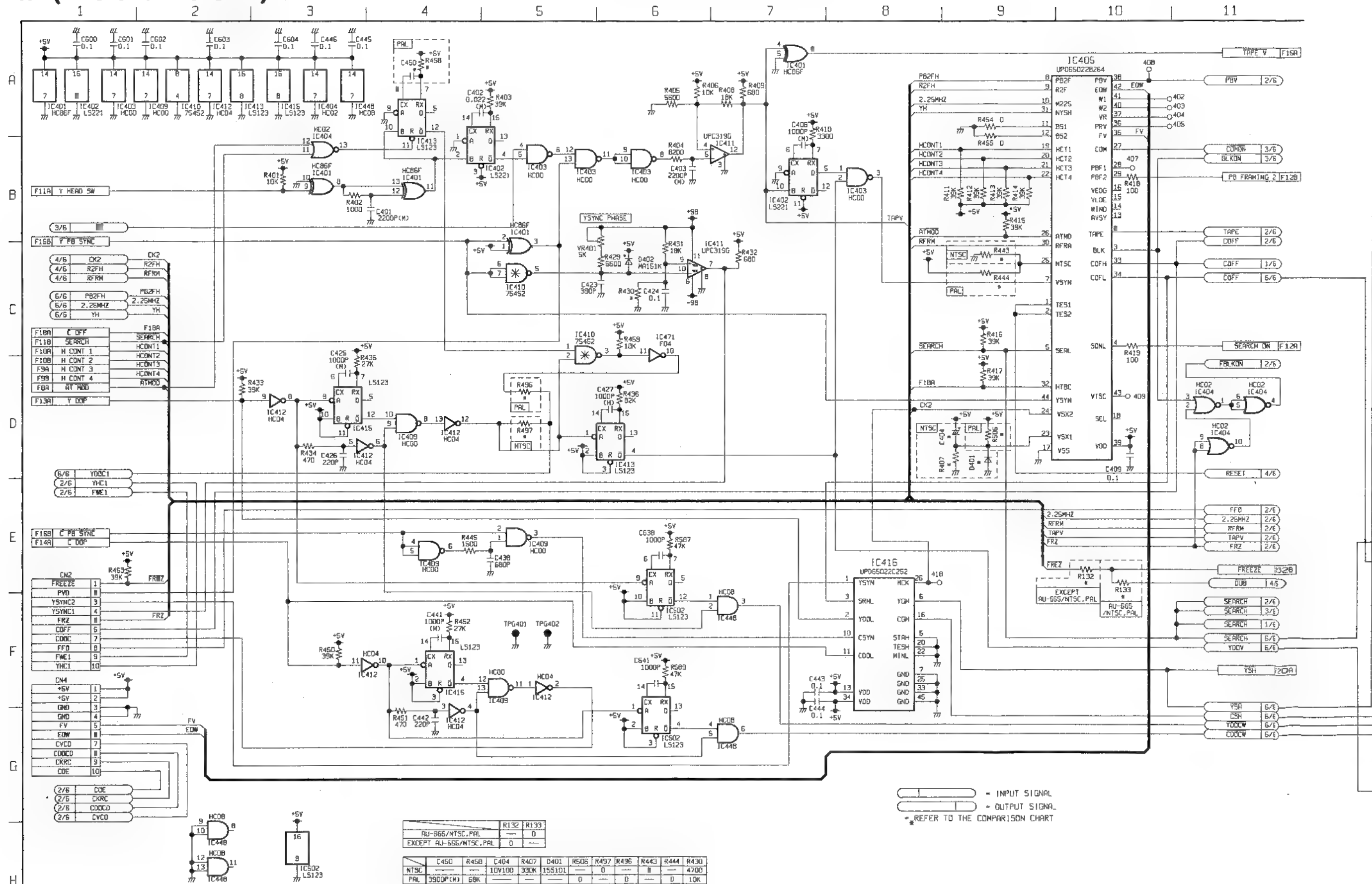


# W1(TBC & SYNC GEN) SCHEMATIC DIAGRAM 4/6

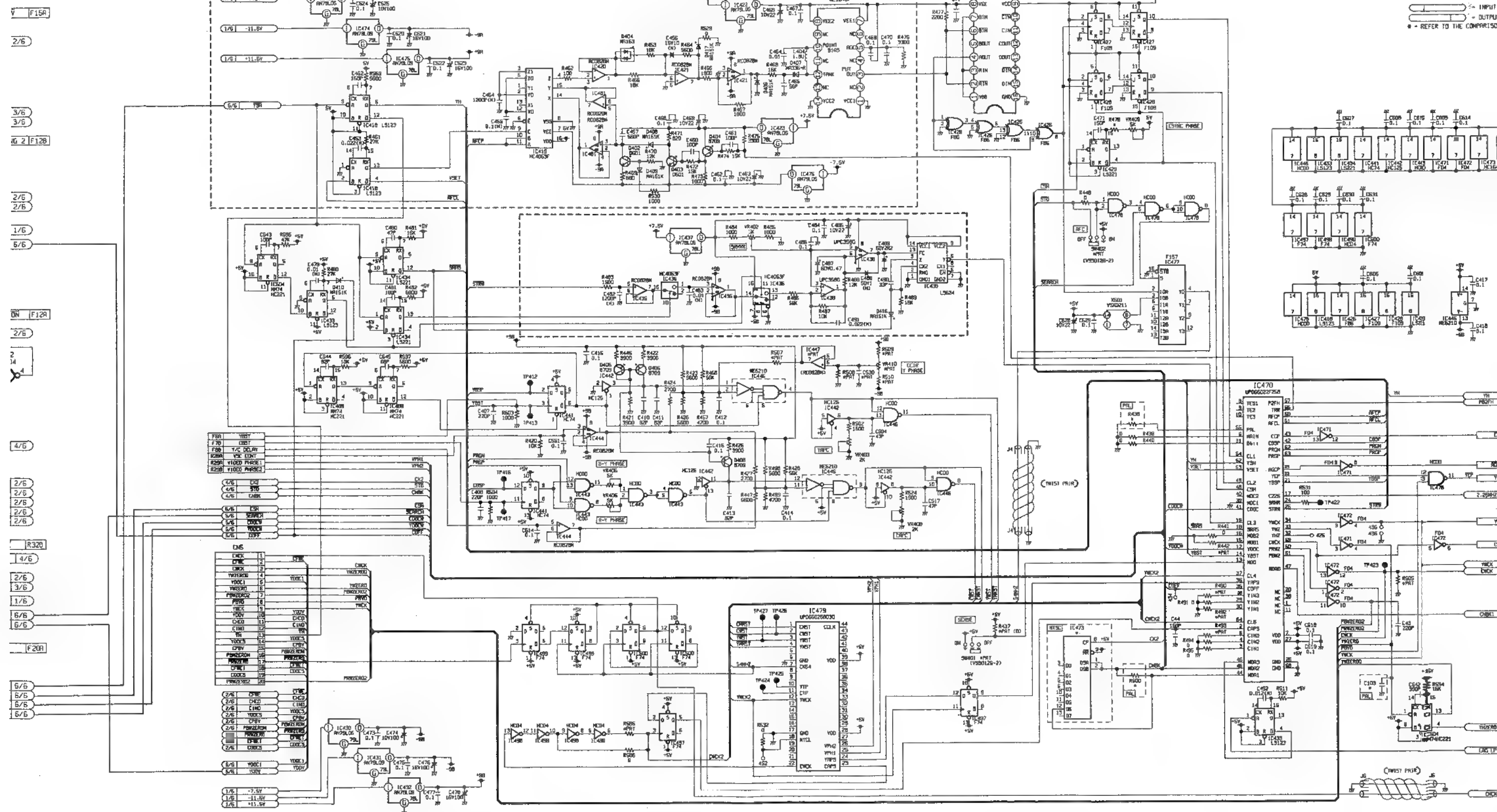


# W1(TBC & SYNC GEN) SCHEMATIC DIAGRAM 5/6

| MODEL TYPE | AU-65H    | AU-63H    | AU-62H    |
|------------|-----------|-----------|-----------|
| NTSC       | VEP88091A | VEP88091A | VEP88091A |
| PAL        | VEP88091C | VEP88091C | VEP88091C |



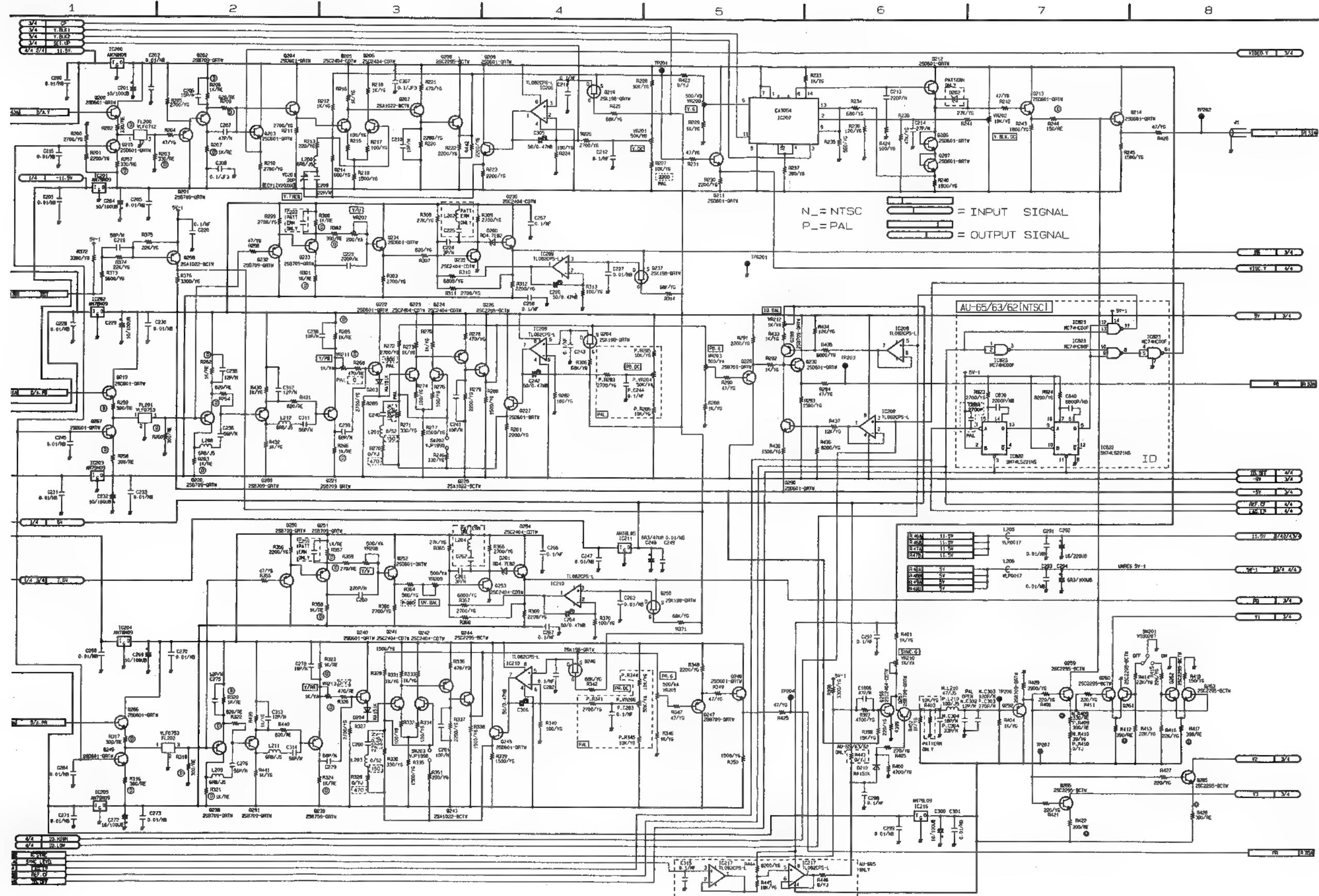
A horizontal timeline with 16 numbered segments. Segment 8 contains a small black square icon.





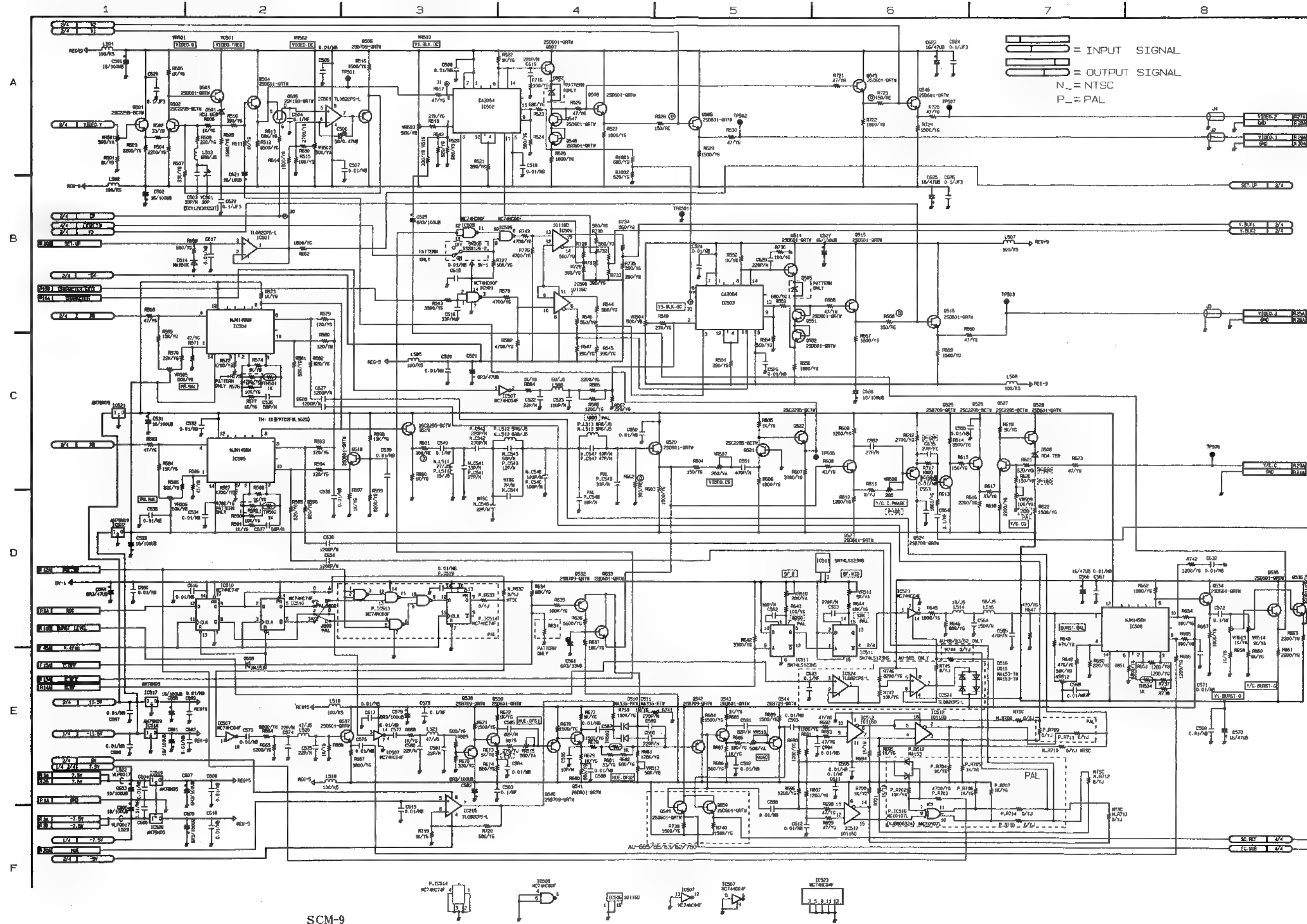


# W2 (ENCODER) SCHEMATIC DIAGRAM 2/4 (FOR NTSC)

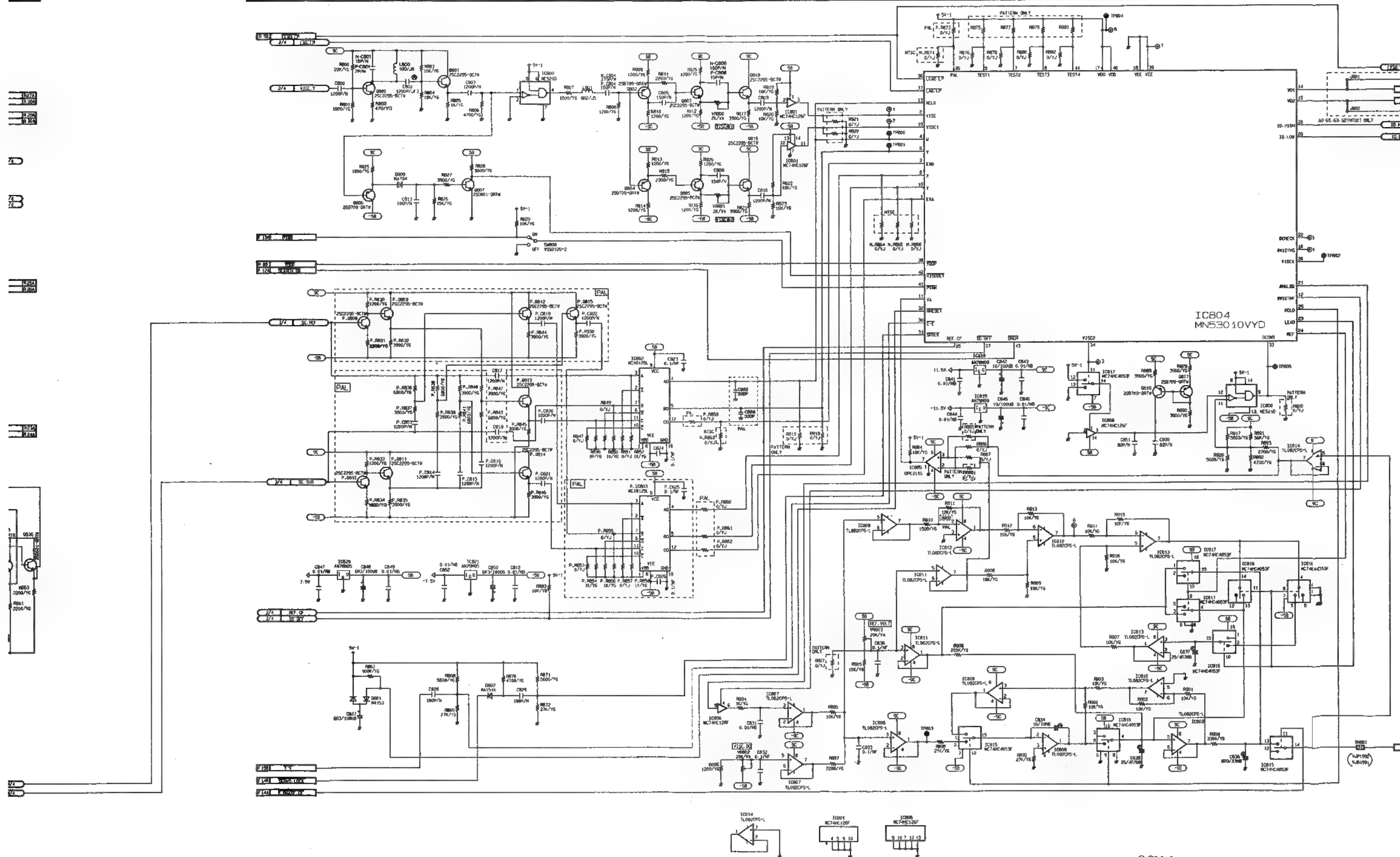


| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  | AU-65H    | AU-63H    | AU-62H    |
| NTSC  | VEP88063P | VEP88063G | VEP88063G |
| PAL   | VEP88063C | VEP88063D | VEP88063C |

# W2 (ENCODER) SCHEMATIC DIAGRAM 3/4 (FOR NTSC)



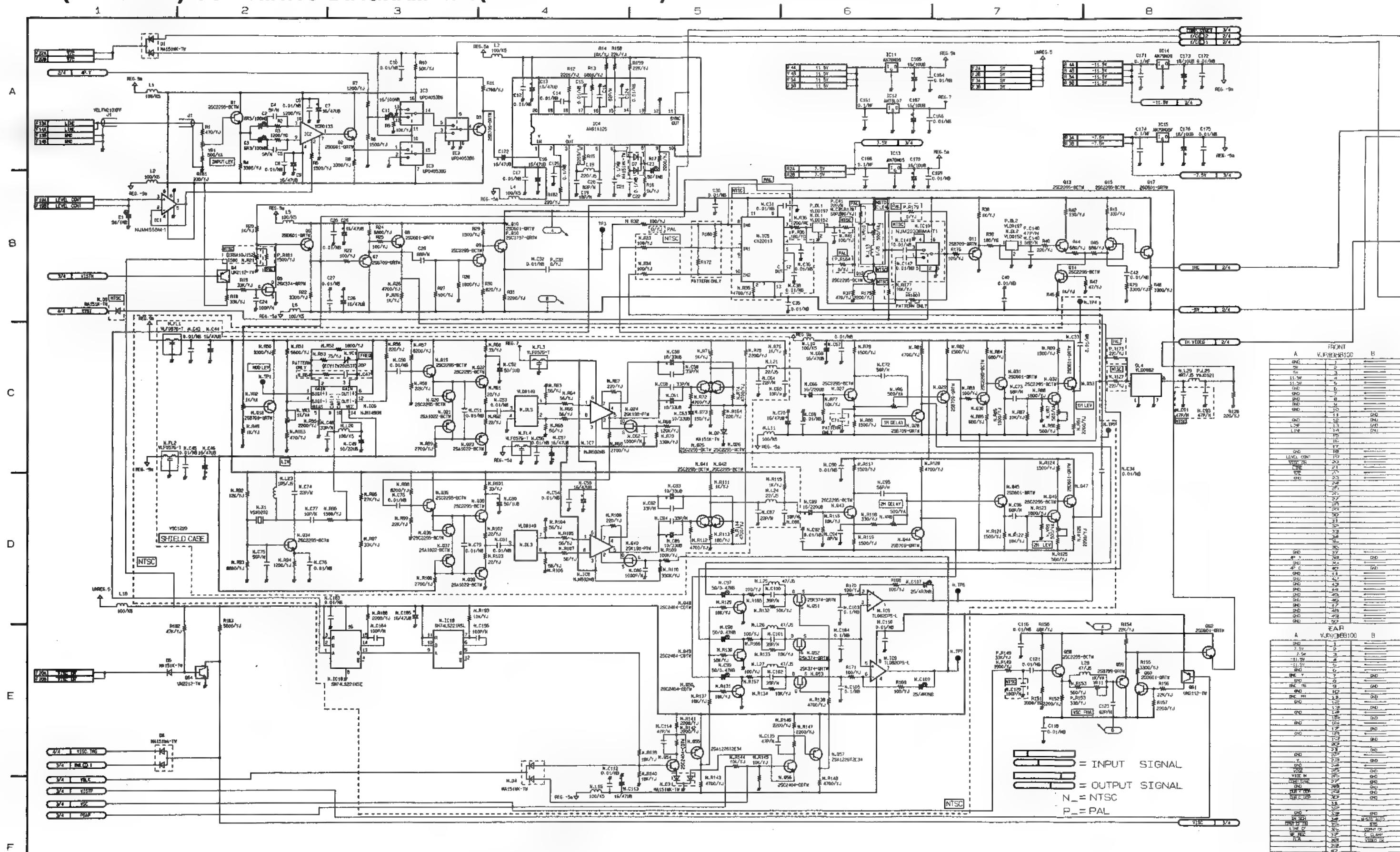
# W2(ENCODER) SCHEMATIC DIAGRAM 4/4(FOR AU-65H PAL)



# DECODER SCHEMATIC DIAGRAM

| MODEL | AU-65H    | AU-63H   | AU-62H   |
|-------|-----------|----------|----------|
| TYPE  | AU-65H    | AU-63H   | AU-62H   |
| NTSC  | VEP83172A | Not Used | Not Used |
| PAL   | SCM-12,13 | Not Used | Not Used |

## W4(DECODER) SCHEMATIC DIAGRAM 1/4(FOR AU-65H NTSC)



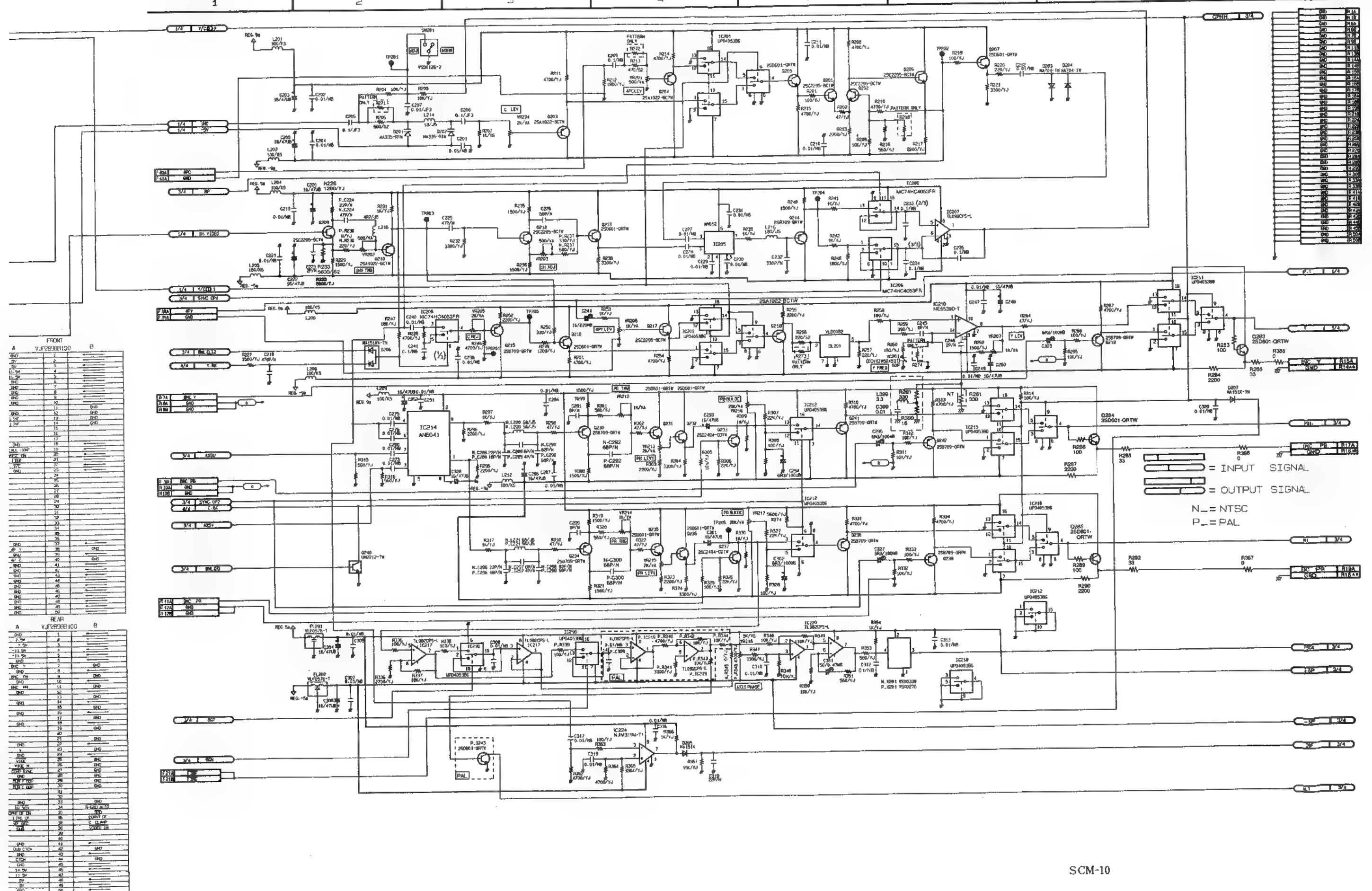
## REVERSE SIDE ENCODER SCHEMATIC DIAGRAM

SCM-10

| A   | FRONT | B     |
|-----|-------|-------|
| 1   | VIDEO | VIDEO |
| 2   | VIDEO | VIDEO |
| 3   | VIDEO | VIDEO |
| 4   | VIDEO | VIDEO |
| 5   | VIDEO | VIDEO |
| 6   | VIDEO | VIDEO |
| 7   | VIDEO | VIDEO |
| 8   | VIDEO | VIDEO |
| 9   | VIDEO | VIDEO |
| 10  | VIDEO | VIDEO |
| 11  | VIDEO | VIDEO |
| 12  | VIDEO | VIDEO |
| 13  | VIDEO | VIDEO |
| 14  | VIDEO | VIDEO |
| 15  | VIDEO | VIDEO |
| 16  | VIDEO | VIDEO |
| 17  | VIDEO | VIDEO |
| 18  | VIDEO | VIDEO |
| 19  | VIDEO | VIDEO |
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| 21  | VIDEO | VIDEO |
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| 26  | VIDEO | VIDEO |
| 27  | VIDEO | VIDEO |
| 28  | VIDEO | VIDEO |
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| 30  | VIDEO | VIDEO |
| 31  | VIDEO | VIDEO |
| 32  | VIDEO | VIDEO |
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| 93  | VIDEO | VIDEO |
| 94  | VIDEO | VIDEO |
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| 96  | VIDEO | VIDEO |
| 97  | VIDEO | VIDEO |
| 98  | VIDEO | VIDEO |
| 99  | VIDEO | VIDEO |
| 100 | VIDEO | VIDEO |

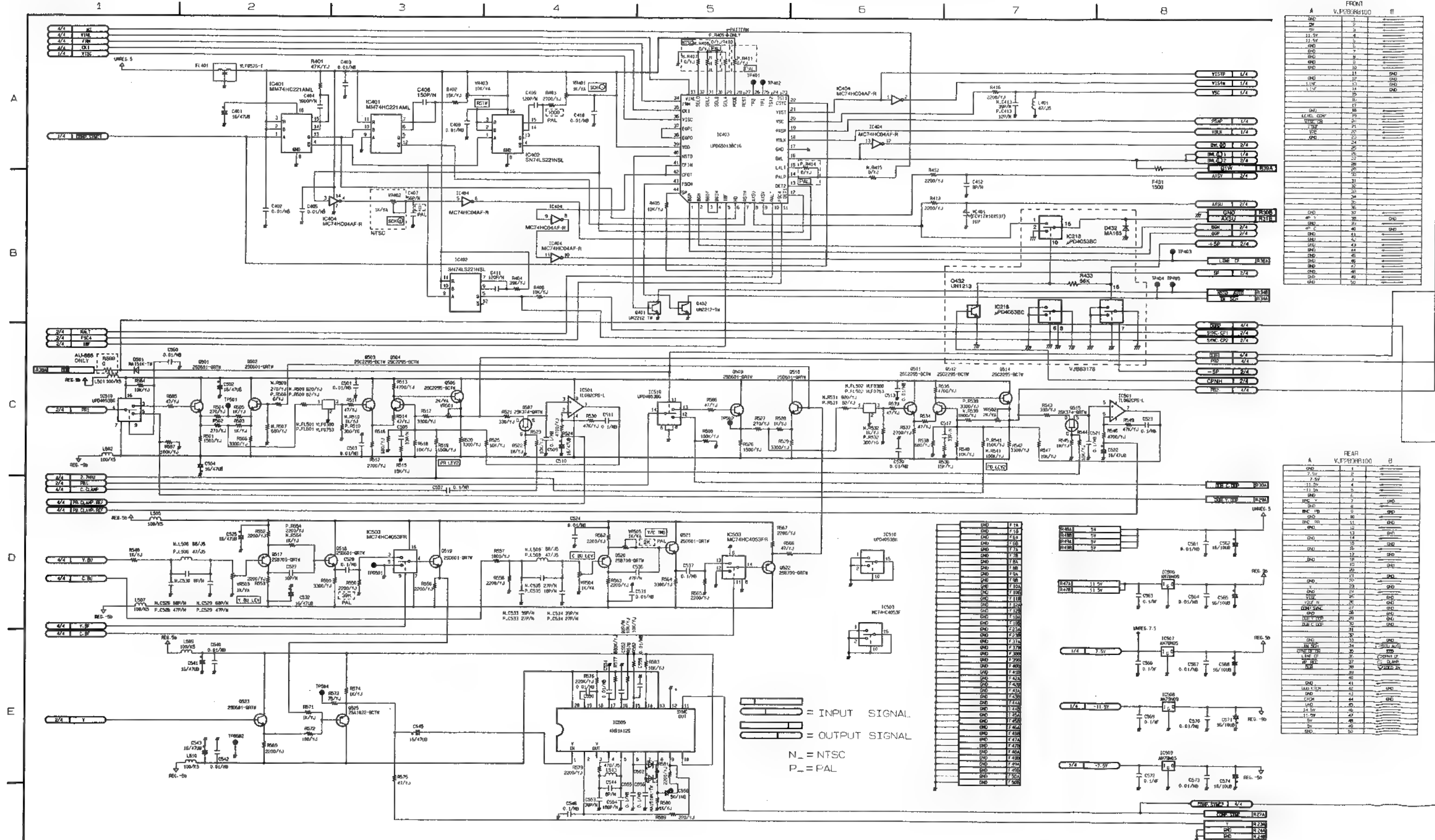


# W4(DECODER) SCHEMATIC DIAGRAM 2/4(FOR AU-65H NTSC)



# W4(DECODER) SCHEMATIC DIAGRAM 3/4(FOR AU-65H NTSC)

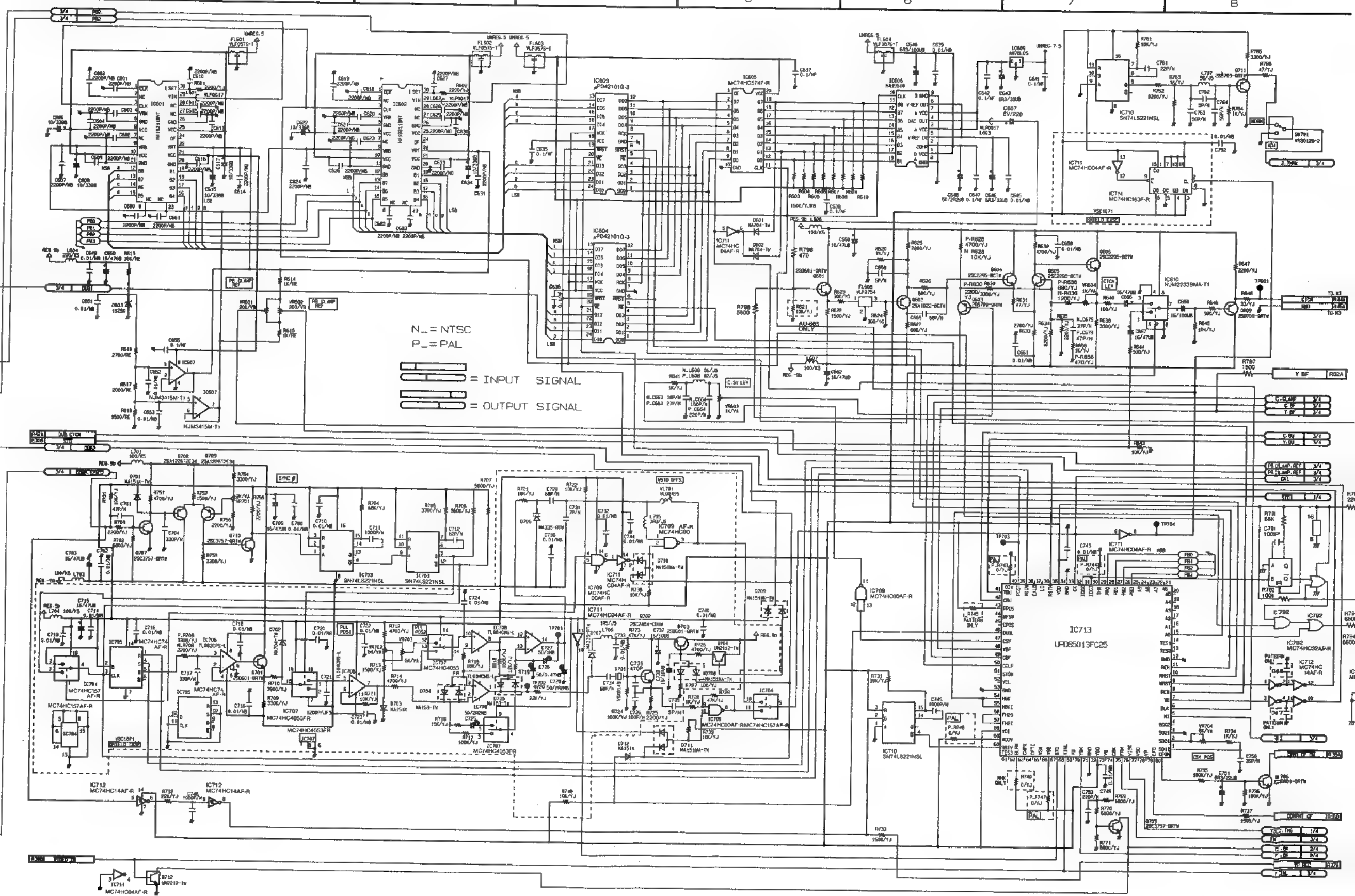
| MODEL TYPE | AU-65H    | AU-63H   | AU-62H   |
|------------|-----------|----------|----------|
| NTSC       | VEP83172A | Not Used | Not Used |
| PAL        | SCM-12,13 | Not Used | Not Used |



# W4(DECODER) SCHEMATIC DIAGRAM 4/4(FOR AU-65H NTSC)

| FRONT |    | A  | B  |
|-------|----|----|----|
| 1     | 2  | 1  | 2  |
| 3     | 4  | 3  | 4  |
| 5     | 6  | 5  | 6  |
| 7     | 8  | 7  | 8  |
| 9     | 10 | 9  | 10 |
| 11    | 12 | 11 | 12 |
| 13    | 14 | 13 | 14 |
| 15    | 16 | 15 | 16 |
| 17    | 18 | 17 | 18 |
| 19    | 20 | 19 | 20 |
| 21    | 22 | 21 | 22 |
| 23    | 24 | 23 | 24 |
| 25    | 26 | 25 | 26 |
| 27    | 28 | 27 | 28 |
| 29    | 30 | 29 | 30 |
| 31    | 32 | 31 | 32 |
| 33    | 34 | 33 | 34 |
| 35    | 36 | 35 | 36 |
| 37    | 38 | 37 | 38 |
| 39    | 40 | 39 | 40 |
| 41    | 42 | 41 | 42 |
| 43    | 44 | 43 | 44 |
| 45    | 46 | 45 | 46 |
| 47    | 48 | 47 | 48 |
| 49    | 50 | 49 | 50 |

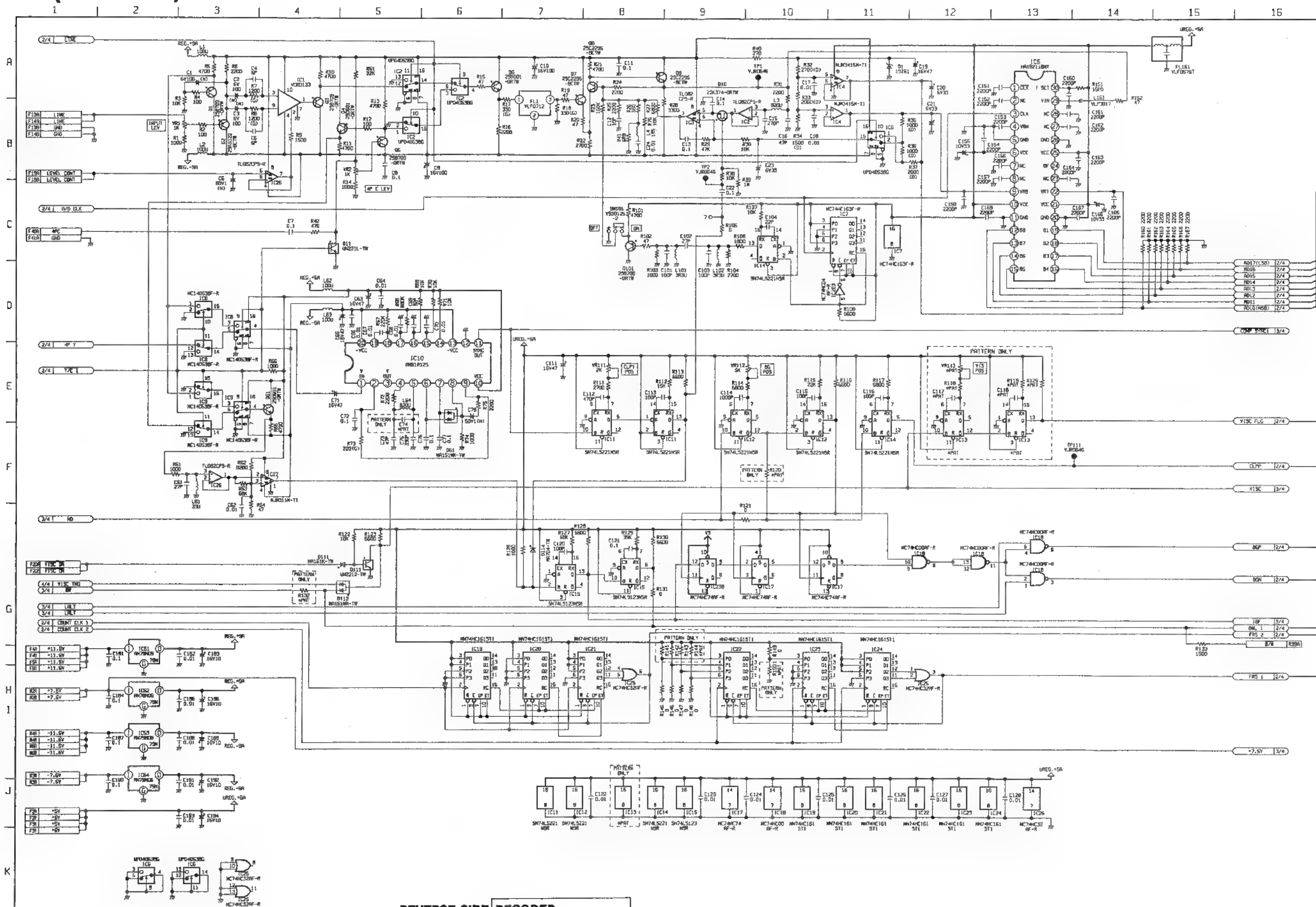
| REAR |    | A  | B  |
|------|----|----|----|
| 1    | 2  | 1  | 2  |
| 3    | 4  | 3  | 4  |
| 5    | 6  | 5  | 6  |
| 7    | 8  | 7  | 8  |
| 9    | 10 | 9  | 10 |
| 11   | 12 | 11 | 12 |
| 13   | 14 | 13 | 14 |
| 15   | 16 | 15 | 16 |
| 17   | 18 | 17 | 18 |
| 19   | 20 | 19 | 20 |
| 21   | 22 | 21 | 22 |
| 23   | 24 | 23 | 24 |
| 25   | 26 | 25 | 26 |
| 27   | 28 | 27 | 28 |
| 29   | 30 | 29 | 30 |
| 31   | 32 | 31 | 32 |
| 33   | 34 | 33 | 34 |
| 35   | 36 | 35 | 36 |
| 37   | 38 | 37 | 38 |
| 39   | 40 | 39 | 40 |
| 41   | 42 | 41 | 42 |
| 43   | 44 | 43 | 44 |
| 45   | 46 | 45 | 46 |
| 47   | 48 | 47 | 48 |
| 49   | 50 | 49 | 50 |



# DECODER SCHEMATIC DIAGRAM

| MODEL | AU-65H | AU-63H    | AU-62H   |
|-------|--------|-----------|----------|
| TYPE  | NTSC   | SCM-10-11 | Not Used |
|       | PAL    | VEP83173A | Not Used |

## W4(DECODER) SCHEMATIC DIAGRAM 1/4(FOR AU-65H PAL)

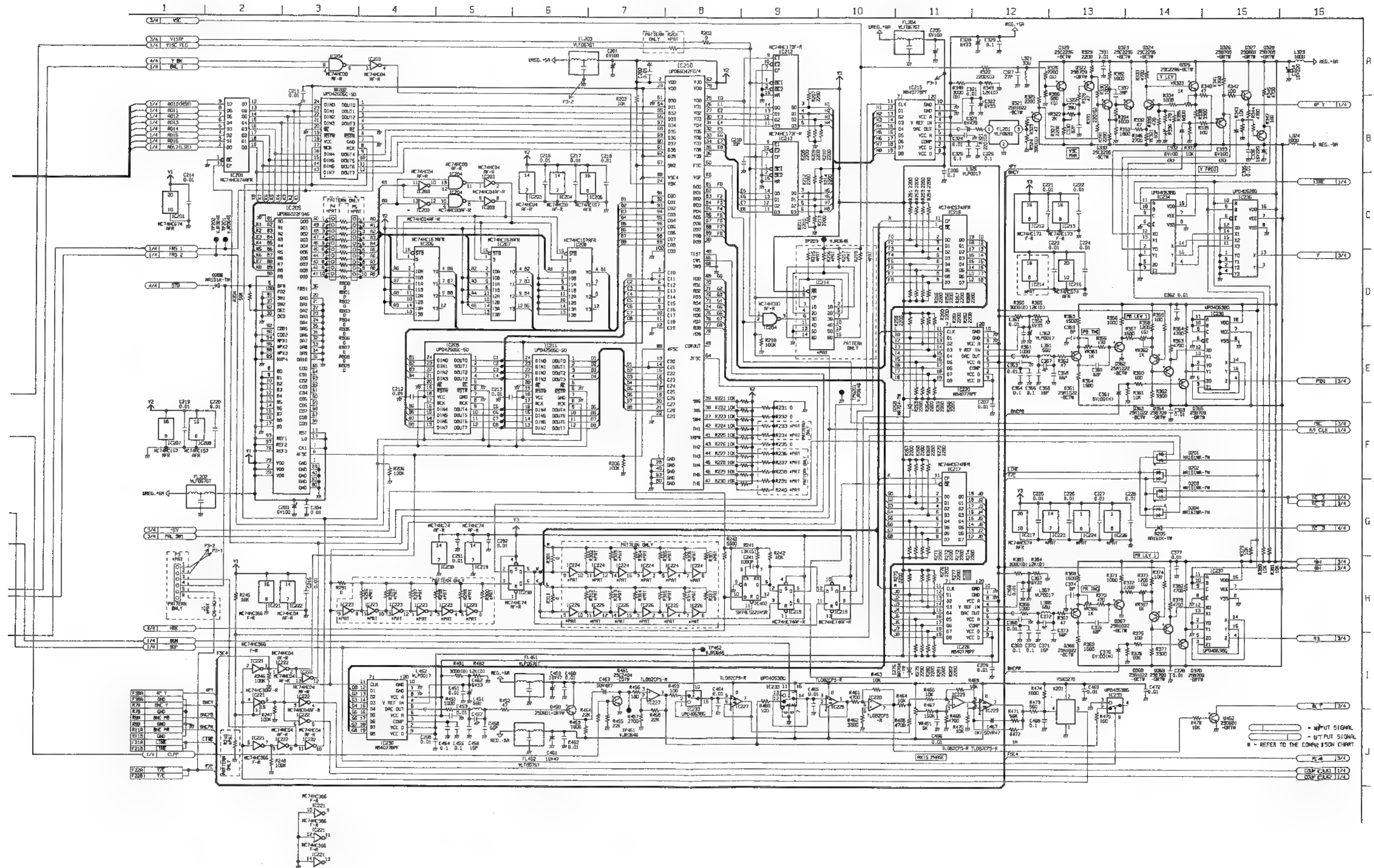


## REVERSE SIDE DECODER SCHEMATIC DIAGRAM

SCM-12



# W4(DECODER) SCHEMATIC DIAGRAM 2/4(FOR AU-65H PAL)





15

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



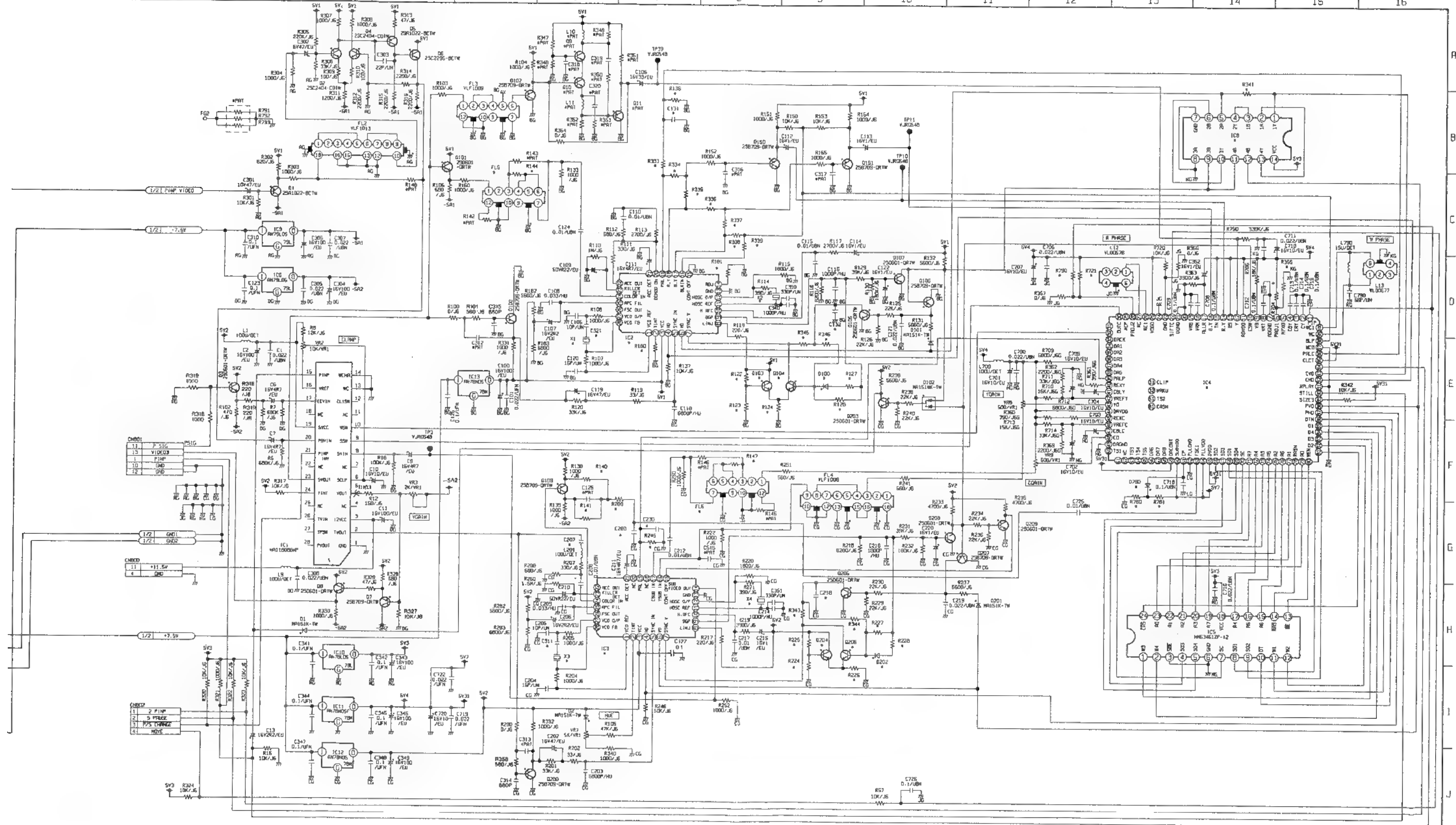
| MODEL<br>TYPE | AU-65H    | AU-63H   | AU-62H   |
|---------------|-----------|----------|----------|
| NTSC          | VEP83170A | Not Used | Not Used |
| PAL           | VEP83170B | Not Used | Not Used |

SCM-14

|      |     |
|------|-----|
| NTSC | PAL |
| NTSC | PAL |
| NTSC | PAL |

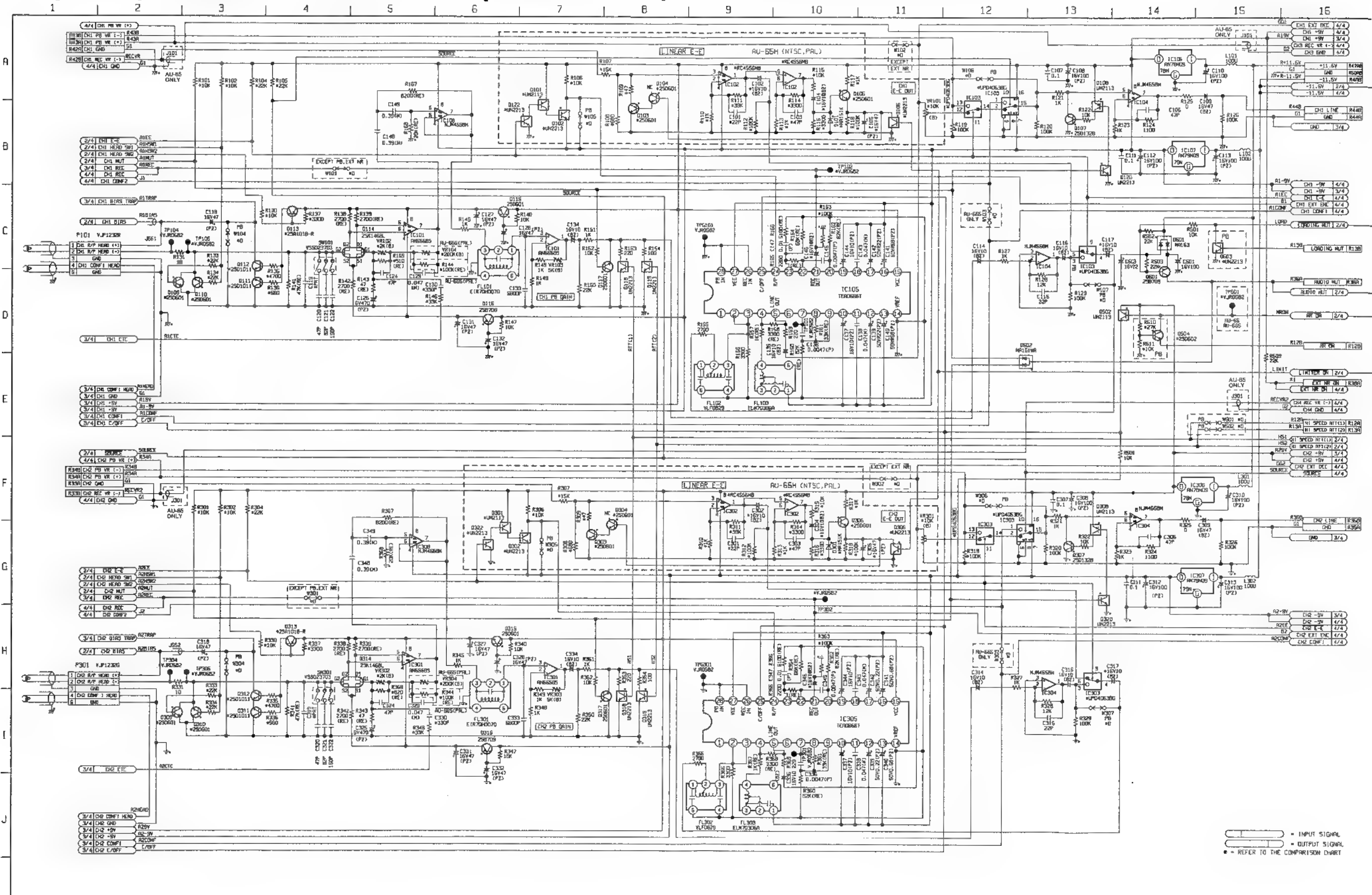


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

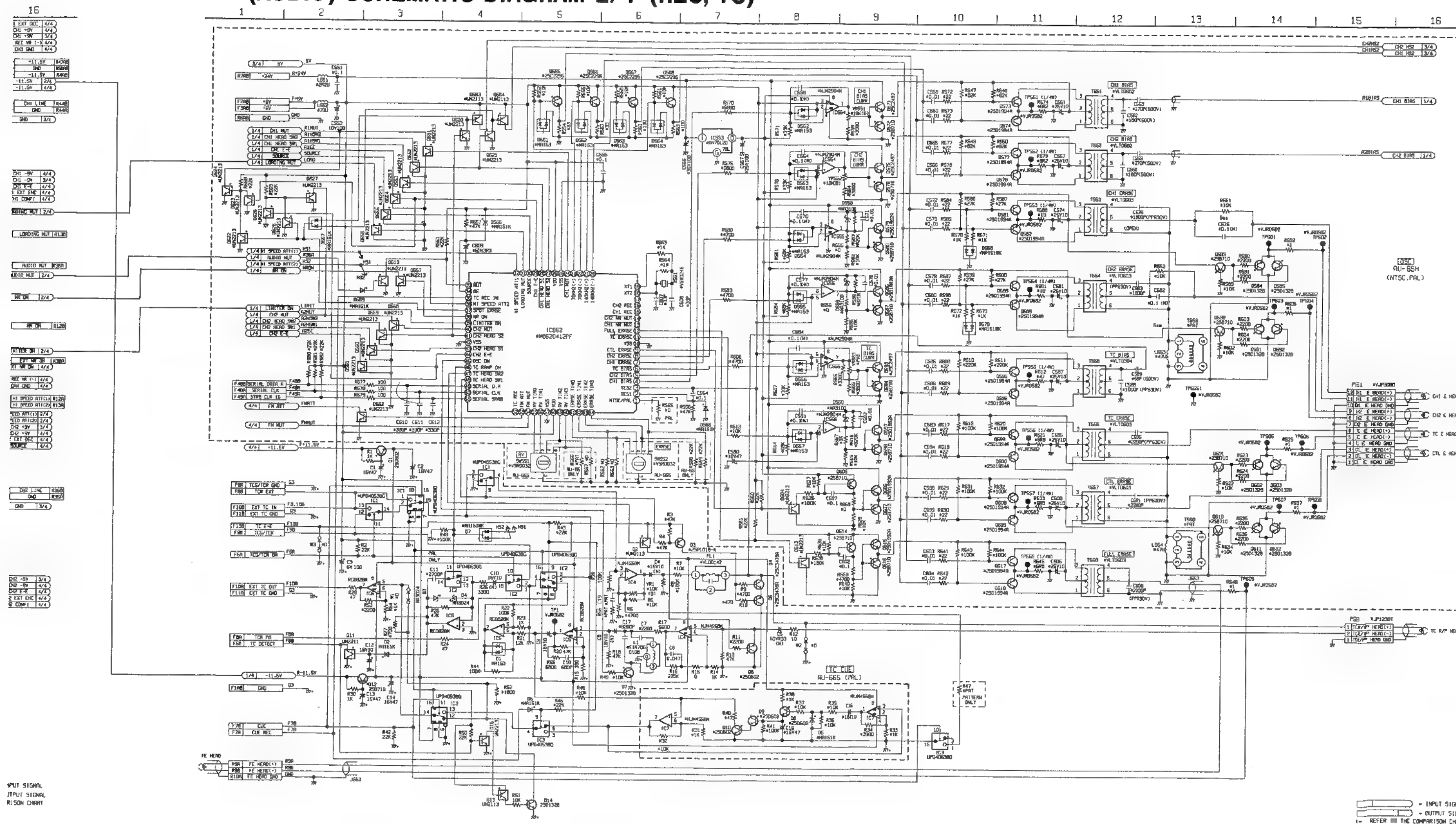
[illegible]

# W6(AUDIO) SCHEMATIC DIAGRAM 1/4 (LINEAR AUDIO)

| MODEL | AU-65H | AU-63H    | AU-62H    |
|-------|--------|-----------|-----------|
| TYPE  | NTSC   | VEP84095J | VEP84095C |
|       | PAL    | VEP84095K | VEP84095E |



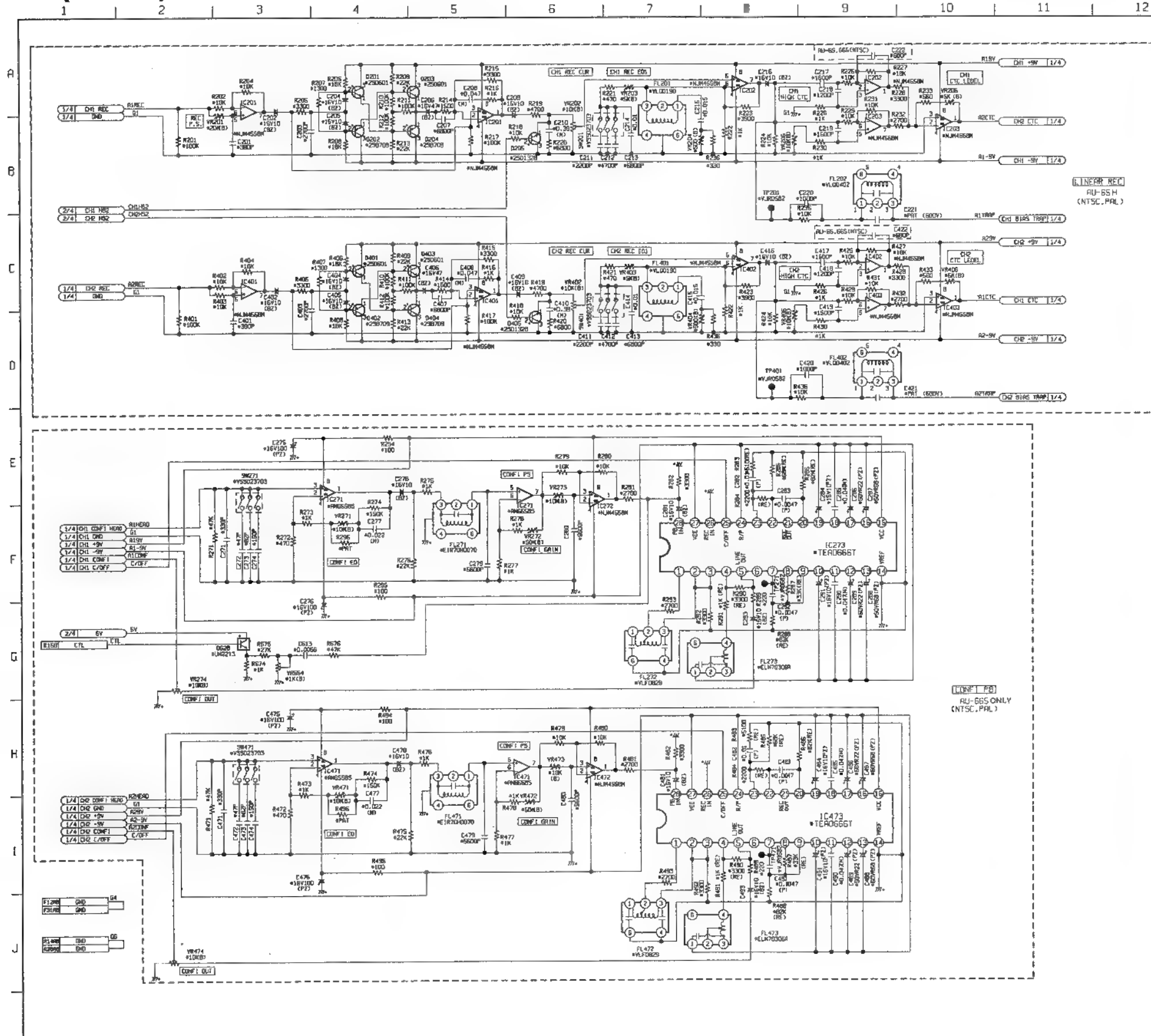
## W6(AUDIO) SCHEMATIC DIAGRAM 2/4 (REC, TC)



# AUDIO SCHEMATIC DIAGRAM

| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  | NTSC      | VEP84095J | VEP84095C |
| PAL   | VEP84095K | VEP84095E | VEP84095E |

## W6(AUDIO) SCHEMATIC DIAGRAM 3/4 (CTL REC)



### FRONT

| Pin | Signal  | Pin | Signal  | Pin | Signal  | Pin | Signal  |
|-----|---------|-----|---------|-----|---------|-----|---------|
| 1   | CH1 REC | 11  | CH1 REC | 21  | CH1 REC | 31  | CH1 REC |
| 2   | CH1 REC | 12  | CH1 REC | 22  | CH1 REC | 32  | CH1 REC |
| 3   | CH1 REC | 13  | CH1 REC | 23  | CH1 REC | 33  | CH1 REC |
| 4   | CH1 REC | 14  | CH1 REC | 24  | CH1 REC | 34  | CH1 REC |
| 5   | CH1 REC | 15  | CH1 REC | 25  | CH1 REC | 35  | CH1 REC |
| 6   | CH1 REC | 16  | CH1 REC | 26  | CH1 REC | 36  | CH1 REC |
| 7   | CH1 REC | 17  | CH1 REC | 27  | CH1 REC | 37  | CH1 REC |
| 8   | CH1 REC | 18  | CH1 REC | 28  | CH1 REC | 38  | CH1 REC |
| 9   | CH1 REC | 19  | CH1 REC | 29  | CH1 REC | 39  | CH1 REC |
| 10  | CH1 REC | 20  | CH1 REC | 30  | CH1 REC | 40  | CH1 REC |

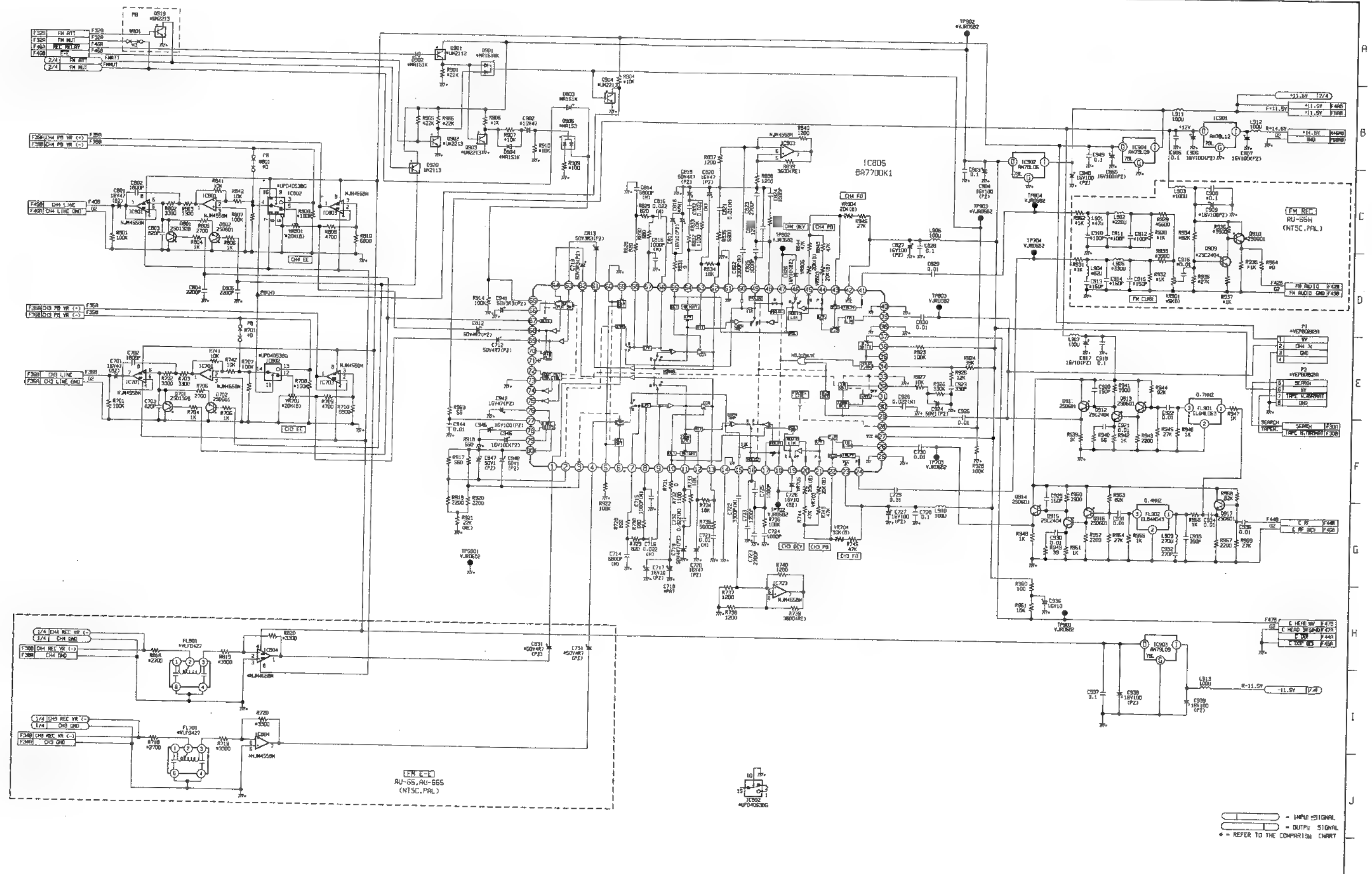
### REAR

| Pin | Signal  | Pin | Signal  | Pin | Signal  | Pin | Signal  |
|-----|---------|-----|---------|-----|---------|-----|---------|
| 1   | CH1 REC | 11  | CH1 REC | 21  | CH1 REC | 31  | CH1 REC |
| 2   | CH1 REC | 12  | CH1 REC | 22  | CH1 REC | 32  | CH1 REC |
| 3   | CH1 REC | 13  | CH1 REC | 23  | CH1 REC | 33  | CH1 REC |
| 4   | CH1 REC | 14  | CH1 REC | 24  | CH1 REC | 34  | CH1 REC |
| 5   | CH1 REC | 15  | CH1 REC | 25  | CH1 REC | 35  | CH1 REC |
| 6   | CH1 REC | 16  | CH1 REC | 26  | CH1 REC | 36  | CH1 REC |
| 7   | CH1 REC | 17  | CH1 REC | 27  | CH1 REC | 37  | CH1 REC |
| 8   | CH1 REC | 18  | CH1 REC | 28  | CH1 REC | 38  | CH1 REC |
| 9   | CH1 REC | 19  | CH1 REC | 29  | CH1 REC | 39  | CH1 REC |
| 10  | CH1 REC | 20  | CH1 REC | 30  | CH1 REC | 40  | CH1 REC |

# REVERSE SIDE AUDIO SCHEMATIC DIAGRAM

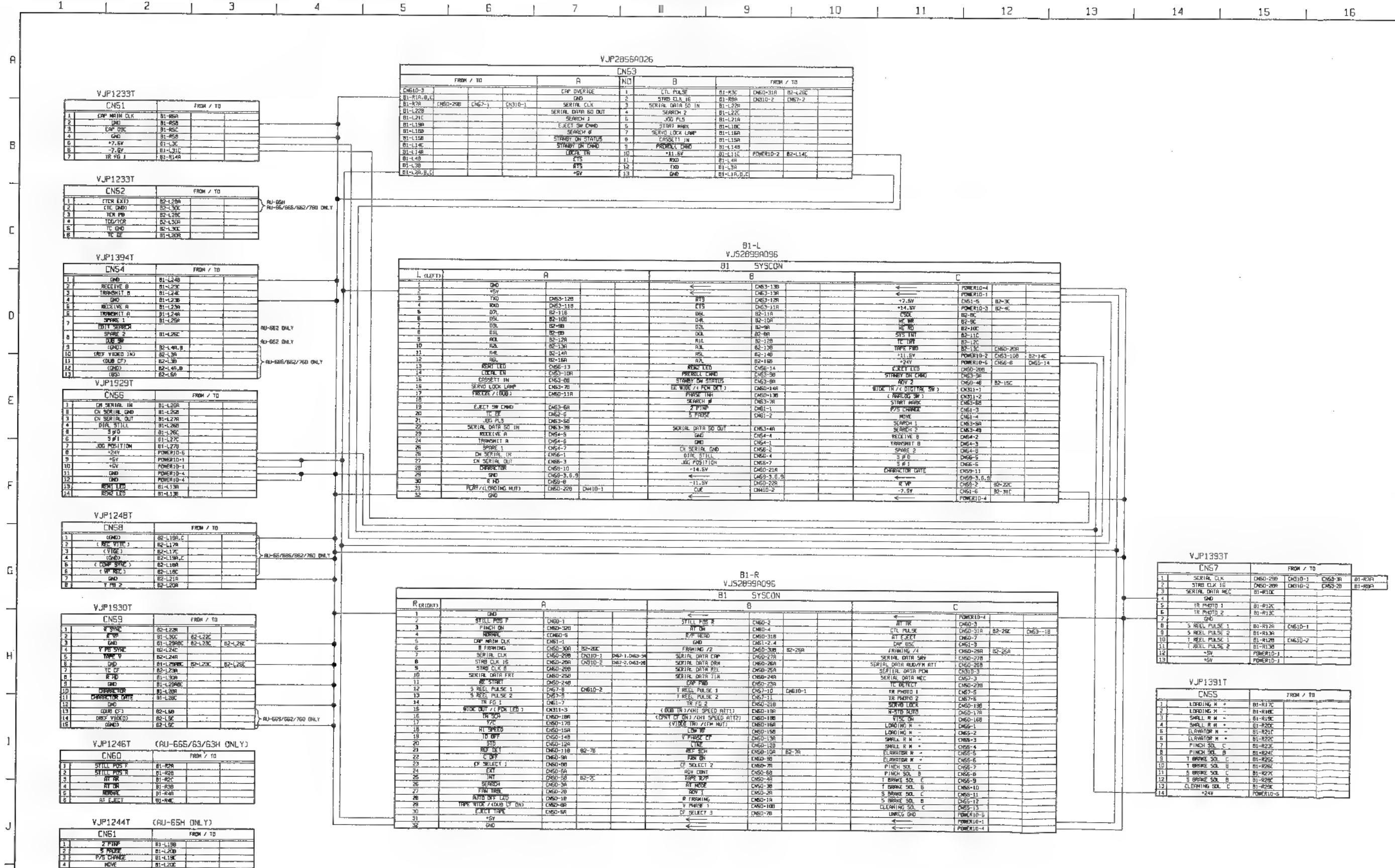


# W6(AUDIO) SCHEMATIC DIAGRAM 4/4 (FM AUDIO)



# BO(B,MOTHER) SCHEMATIC DIAGRAM 1/2

| MODEL TYPE | AU-65H    | AU-63H    | AU-62H    |
|------------|-----------|-----------|-----------|
| NTSC       | VEP80549H | VEP80549K | VEP80549J |
| PAL        | VEP80549H | VEP80549K | VEP80549J |



# BO(B,MOTHER) SCHEMATIC DIAGRAM 2/2

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| VJP1230T (PCM ONLY) |                 |           |        |         |             |
|---------------------|-----------------|-----------|--------|---------|-------------|
| CN310               |                 | FROM / TO |        |         |             |
| 1                   | SERIAL CLK      | CM50-20B  | CM57-1 | CM53-3B | B1-R2A      |
| 2                   | OPEN SOL ON     | PAGE-3    |        |         | AU-662 ONLY |
| 3                   | STRB CLK 16     | CM50-26A  | CM57-2 | CM53-2B | B1-R8A      |
| 4                   | OPEN SOL OFF    | PAGE-2    |        |         | AU-662 ONLY |
| 5                   | SERIAL DATA PCM | B1-R8C    |        |         |             |
| 6                   | +11.5V          | PAGE-1    |        |         |             |

| VJP1230T (AU-65H/AU-63H/AU-62H ONLY) |                        |           |         |  |  |
|--------------------------------------|------------------------|-----------|---------|--|--|
| CN311                                |                        | FROM / TO |         |  |  |
| 1                                    | MODE IN / (DIGITAL SW) | B1-L18C   | CM311-1 |  |  |
| 2                                    | (ANALOG SW)            | B1-L17C   |         |  |  |
| 3                                    | WIDE OUT / (PCM TEST)  | B1-R15A   | CM311-3 |  |  |

| VJP1229T (PAL ONLY) |             |           |          |  |             |
|---------------------|-------------|-----------|----------|--|-------------|
| CN410               |             | FROM / TO |          |  |             |
| 1                   | PLAY        | CM50-22B  | B1-L31A  |  | AU-662 ONLY |
| 2                   | CLK         | B1-L31B   |          |  |             |
| 3                   | TAPE IN PWR | MS-F30A   | (PROMPT) |  | AU-662 ONLY |
| 4                   | CLK         | B1-L31B   |          |  |             |

| VJP1230T |              |           |         |  |  |
|----------|--------------|-----------|---------|--|--|
| CN610    |              | FROM / TO |         |  |  |
| 1        | REEL PULSE 1 | CM57-10   | B1-R12B |  |  |
| 2        | REEL PULSE 2 | CM57-8    | B1-R12A |  |  |
| 3        | REF OVERIDE  | CM53-1A   |         |  |  |

| VJP1709 |           |           |  |  |  |
|---------|-----------|-----------|--|--|--|
| POWER10 |           | FROM / TO |  |  |  |
| 1       | +5V       |           |  |  |  |
| 2       | +11.5V    |           |  |  |  |
| 3       | +14.5V    |           |  |  |  |
| 4       | GND       |           |  |  |  |
| 5       | +24V      |           |  |  |  |
| 6       | UNREG GND |           |  |  |  |

0.047UF  
5V220

| B2 VJS2899A096      |             |            |          |  |  |           |         |          |             |          |                    |
|---------------------|-------------|------------|----------|--|--|-----------|---------|----------|-------------|----------|--------------------|
| B2 TCG/TCR (OPTION) |             |            |          |  |  |           |         |          |             |          |                    |
| L (LEFT)            |             |            | A        |  |  | B         |         |          | C           |          |                    |
| 1                   | GND         |            |          |  |  |           |         |          |             |          |                    |
| 2                   | 15V         |            |          |  |  |           |         |          |             |          |                    |
| 3                   | RE VIDEO IN | CM54-10    |          |  |  | OUT OF IN | CM54-11 |          | +7.5V       | B1-L3C   | CM51-5             |
| 4                   | GND         | CM54-11,12 |          |  |  | GND       | CM54-12 |          | +14.5V      | B1-L4C   |                    |
| 5                   | RE          | CM54-13    |          |  |  | OUT OF    | CM54-13 |          | REF VIDEO   | CM59-14  |                    |
| 6                   | GND         |            |          |  |  | GND       |         |          | GND         | CM59-15  |                    |
| 7                   | REF RET     | B1-R21B    | CM50-10A |  |  | REF RET   | B1-R21A | CM50-11B | INT         | B1-R25A  | CM50-5B            |
| 8                   | DEL         | B1-L0B     |          |  |  | DIL       | B1-L8A  |          | CS DEL      | B1-L8C   |                    |
| 9                   | DEL         | B1-L7B     |          |  |  | DIL       | B1-L7A  |          | RE WR       | B1-L6C   |                    |
| 10                  | DEL         | B1-L5B     |          |  |  | DIL       | B1-L5A  |          | RE NO       | B1-L7C   |                    |
| 11                  | DEL         | B1-L5B     |          |  |  | DIL       | B1-L5A  |          | SYN IN      | B1-L5C   |                    |
| 12                  | DEL         | B1-L5B     |          |  |  | DIL       | B1-L5A  |          | VC INT      | B1-L9C   |                    |
| 13                  | DEL         | B1-L10A    |          |  |  | DEL       | B1-L10B |          | TAPE PWS    | B1-L10C  | CM50-20A           |
| 14                  | DEL         | B1-L11A    |          |  |  | DEL       | B1-L11B |          | +11.5V      | B1-L11C  | CM53-10B POWER10-2 |
| 15                  | DEL         | B1-L12A    |          |  |  | DEL       | B1-L12B |          | REF 2       | B1-L15C  | CM50-4B            |
| 16                  | GND         |            |          |  |  | GND       |         |          | GND         | CM50-5   |                    |
| 17                  | REC VTRC    | CM50-2     |          |  |  |           |         |          | VIDEO       | CM50-5   |                    |
| 18                  | TRAP SYNC   | CM50-5     |          |  |  |           |         |          | REF RET     | CM50-6   |                    |
| 19                  | GND         | CM50-1,4   |          |  |  |           |         |          | GND         | CM50-1,4 |                    |
| 20                  | Y PB 2      | CM50-6     |          |  |  |           |         |          | S PREPARE   | B1-R8A   | CM50-30A           |
| 21                  | GND         | CM50-7     |          |  |  |           |         |          | GND         | CM50-2   | B1-L30C            |
| 22                  | IF SYNC     | CM50-1     |          |  |  |           |         |          | REF         | CM50-3,6 |                    |
| 23                  | IC CF       | CM50-7     |          |  |  |           |         |          | GND         | CM50-4   |                    |
| 24                  | Y PB 1      | CM50-5     |          |  |  |           |         |          | Y PB SYNC   | CM50-3,6 |                    |
| 25                  | Y PB 2      | B1-R5C     | CM50-29A |  |  |           |         |          | GND         | CM50-3,6 |                    |
| 26                  | FRAMING /4  | B1-R5B     | CM50-30B |  |  |           |         |          | CTL PULSE   | B1-R5C   | CM50-31A CM53-1B   |
| 27                  | TCR EXT     | CM52-1     |          |  |  |           |         |          | GND         | CM52-3   |                    |
| 28                  | TCR EXT     | CM52-1     |          |  |  |           |         |          | TCR PB      | CM52-3   |                    |
| 29                  | GND         |            |          |  |  |           |         |          | GND         | CM52-2,5 |                    |
| 30                  | TCG/TCR     | CM52-4     |          |  |  |           |         |          | TCG/TCR GND | CM52-2,5 |                    |
| 31                  | GND         |            |          |  |  |           |         |          |             |          |                    |
| 32                  | GND         |            |          |  |  |           |         |          |             |          |                    |

| FROM / TO |        |         |        |
|-----------|--------|---------|--------|
| 25B       | CM50-1 | CM53-3B | B1-R7A |
| 25B       | CM50-2 | CM53-2B | B1-R8A |
| 25C       |        |         |        |
| 25D       |        |         |        |
| 25E       |        |         |        |
| 25F       |        |         |        |
| 25G       |        |         |        |
| 25H       |        |         |        |
| 25I       |        |         |        |
| 25J       |        |         |        |
| 25K       |        |         |        |
| 25L       |        |         |        |
| 25M       |        |         |        |
| 25N       |        |         |        |
| 25O       |        |         |        |
| 25P       |        |         |        |
| 25Q       |        |         |        |
| 25R       |        |         |        |
| 25S       |        |         |        |
| 25T       |        |         |        |
| 25U       |        |         |        |
| 25V       |        |         |        |
| 25W       |        |         |        |
| 25X       |        |         |        |
| 25Y       |        |         |        |
| 25Z       |        |         |        |

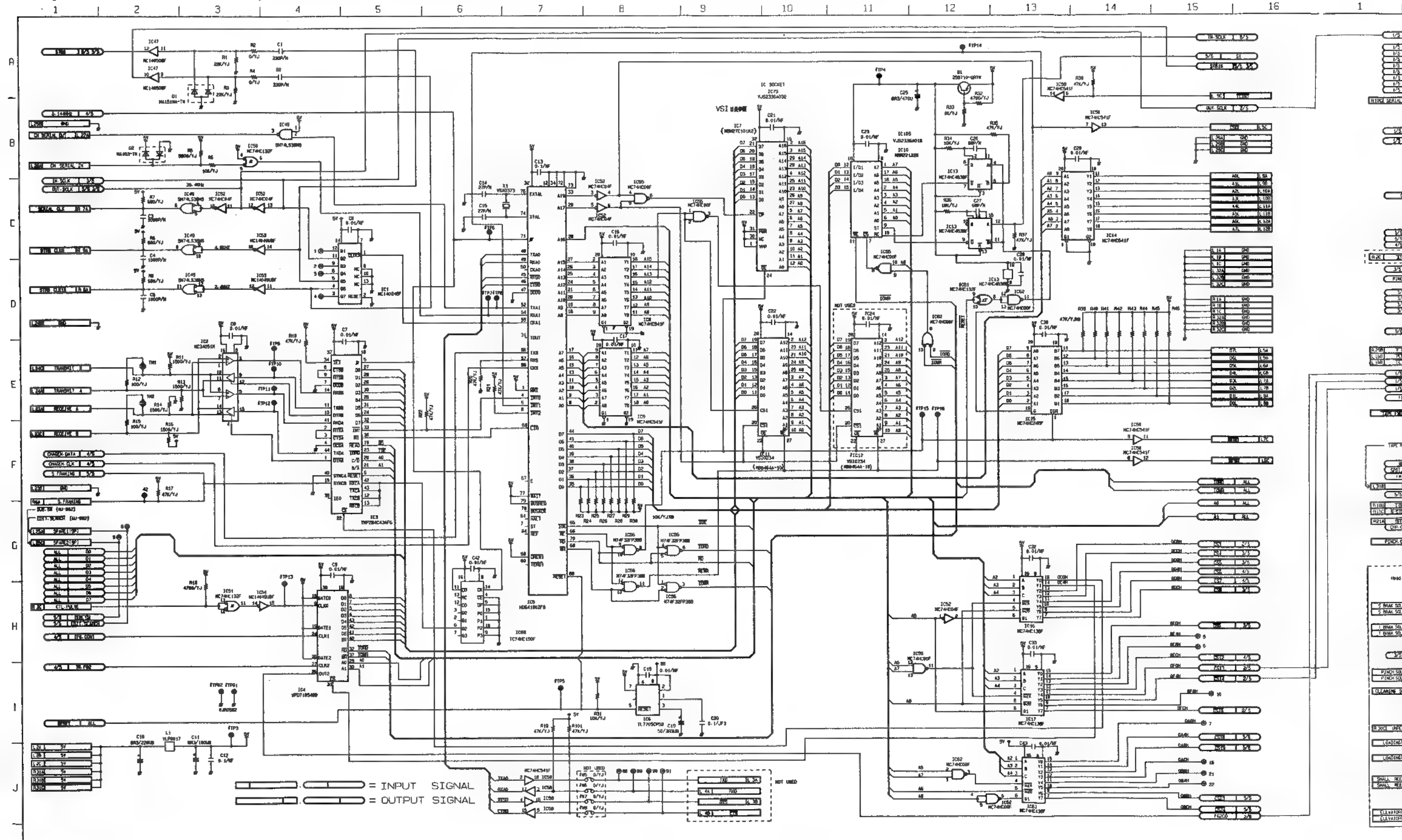
| FROM / TO |  |  |  |
|-----------|--|--|--|
| 25B       |  |  |  |
| 25C       |  |  |  |
| 25D       |  |  |  |
| 25E       |  |  |  |
| 25F       |  |  |  |
| 25G       |  |  |  |
| 25H       |  |  |  |
| 25I       |  |  |  |
| 25J       |  |  |  |
| 25K       |  |  |  |
| 25L       |  |  |  |
| 25M       |  |  |  |
| 25N       |  |  |  |
| 25O       |  |  |  |
| 25P       |  |  |  |
| 25Q       |  |  |  |
| 25R       |  |  |  |
| 25S       |  |  |  |
| 25T       |  |  |  |
| 25U       |  |  |  |
| 25V       |  |  |  |
| 25W       |  |  |  |
| 25X       |  |  |  |
| 25Y       |  |  |  |
| 25Z       |  |  |  |

| VJP2893A064 |         |         |                           |    |  |                                |  |  |           |         |         |
|-------------|---------|---------|---------------------------|----|--|--------------------------------|--|--|-----------|---------|---------|
| CN50        |         |         |                           |    |  |                                |  |  |           |         |         |
| FROM / TO   |         |         | A                         |    |  | B                              |  |  | FROM / TO |         |         |
| B1-R20B     |         |         | R FRAMING                 | 3  |  | RETO OFF LED                   |  |  | B1-R20A   |         |         |
| B1-R27B     |         |         | REF 1                     | 2  |  | REF 1                          |  |  | B1-R27A   |         |         |
| B1-R26A     |         |         | SEARCH                    | 3  |  | AT MODE                        |  |  | B1-R26B   |         |         |
| B1-R25B     |         |         | TAPE R/P                  | 4  |  | STOP                           |  |  | B1-L15C   | B2-L15C |         |
| B1-R25A     |         |         | EJECT TAPE                | 5  |  | INT                            |  |  | B1-R25A   | B2-L15C |         |
| B1-R24B     |         |         | EXT                       | 6  |  | REF CONT                       |  |  | B1-R24B   |         |         |
| B1-R23B     |         |         | CF SELECT 2               | 7  |  | CF SELECT 3                    |  |  | B1-R23B   |         |         |
| B1-R23A     |         |         | TAPE WIDE / (OUT OF IN)   | 8  |  | CF SELECT 1                    |  |  | B1-R23A   |         |         |
| B1-R22B     |         |         | C OFF                     | 9  |  | FRM ON                         |  |  | B1-R22B   |         |         |
| B1-R22A     |         |         | REF 2                     | 10 |  | V PHASE 1                      |  |  | B1-R22A   |         |         |
| B1-L17B     | B2-L17B |         | PREPARE / (OUT)           | 11 |  | REF DET                        |  |  | B1-R21A   | B2-L17B |         |
| B1-R20A     |         |         | STD                       | 12 |  | CLIP                           |  |  | B1-R20A   |         |         |
| B1-R18B     |         |         | V PHASE 2                 | 13 |  | PHASE IN                       |  |  | B1-L17B   |         |         |
| B1-L18B     |         |         | EE WIDE / (PCM DET)       | 14 |  | TO OFF                         |  |  | B1-R18A   |         |         |
| B1-R18A     |         |         | RT SPEED                  | 15 |  | LOW RF                         |  |  | B1-R18B   |         |         |
| B1-R17B     |         |         | (VIDEO IN / (PCM DET)     | 16 |  | VIDEO ON                       |  |  | B1-R17B   |         |         |
| B1-R15C     |         |         | H-STA AUTO                | 17 |  | Y/C                            |  |  | B1-R15C   |         |         |
| B1-R16A     |         |         | IN SOL                    | 18 |  | (COPY OF IN) / (NO SPEED ATT)  |  |  | B1-R16B   |         |         |
| B1-R15B     |         |         | (OUT IN) / (HI SPEED ATT) | 19 |  | SERVO LOCK                     |  |  | B1-R14C   |         |         |
| B1-L18C     | B2-L18C |         | TAPE FWD                  | 20 |  | EJECT LED                      |  |  | B1-L18C   |         |         |
| B1-L18B     |         |         | +14.5V                    | 21 |  | TA FWD                         |  |  | B1-R14B   |         |         |
| B1-L18A     |         |         | -11.5V                    | 22 |  | FINF / (LOADING AUTO) / (PLAY) |  |  | B1-L18A   | CM410-1 |         |
| B1-R11B     |         |         | REF 2                     | 23 |  | VC DETECT                      |  |  | B1-R11C   |         |         |
| B1-R10B     |         |         | SERIAL DATA T/R           | 24 |  | RE START                       |  |  | B1-R11A   |         |         |
| B1-R9B      |         |         | SERIAL DATA R/L           | 25 |  | SERIAL DATA F/R                |  |  | B1-R10A   |         |         |
| B1-R9A      |         |         | SERIAL DATA D/R           | 26 |  | SERIAL DATA R/D/F/R ATT        |  |  | B1-R9C    |         |         |
| B1-R7B      |         |         | SERIAL DATA C/R           | 27 |  | SERIAL DATA S/R                |  |  | B1-R7C    |         |         |
| B1-R8A      | CM510-2 | CM53-2B | STRB CLK 16               | 28 |  | STRB CLK 0                     |  |  | B1-R8A    |         |         |
| B1-R6C      | B2-L26A |         | FRAMING /4                | 29 |  | SERIAL CLK                     |  |  | B1-R7A    | CM510-1 | CM53-3B |
| B1-R6B      | B2-L20C |         | S FRAMING                 | 30 |  | FRAMING /2                     |  |  | B1-R6B    | B2-26A  |         |
| B1-R6C      | B2-L20C | CM53-1B | CLT PULSE                 | 31 |  | R/P TEST                       |  |  | B1-R6B    |         |         |
| B2-27A      |         |         | TCG/TCR ON                | 32 |  | FINF IN                        |  |  | B1-R6A    |         |         |

# SYSTEM CONTROL SCHEMATIC DIAGRAM

| MODEL | AU-65H | AU-63H    | AU-62H    |
|-------|--------|-----------|-----------|
| TYPE  | NTSC   | VEP86121A | VEP86121C |
|       | PAL    | VEP86121D | VEP86121F |

## B1(SYSTEM CONTROL) SCHEMATIC DIAGRAM 1/5

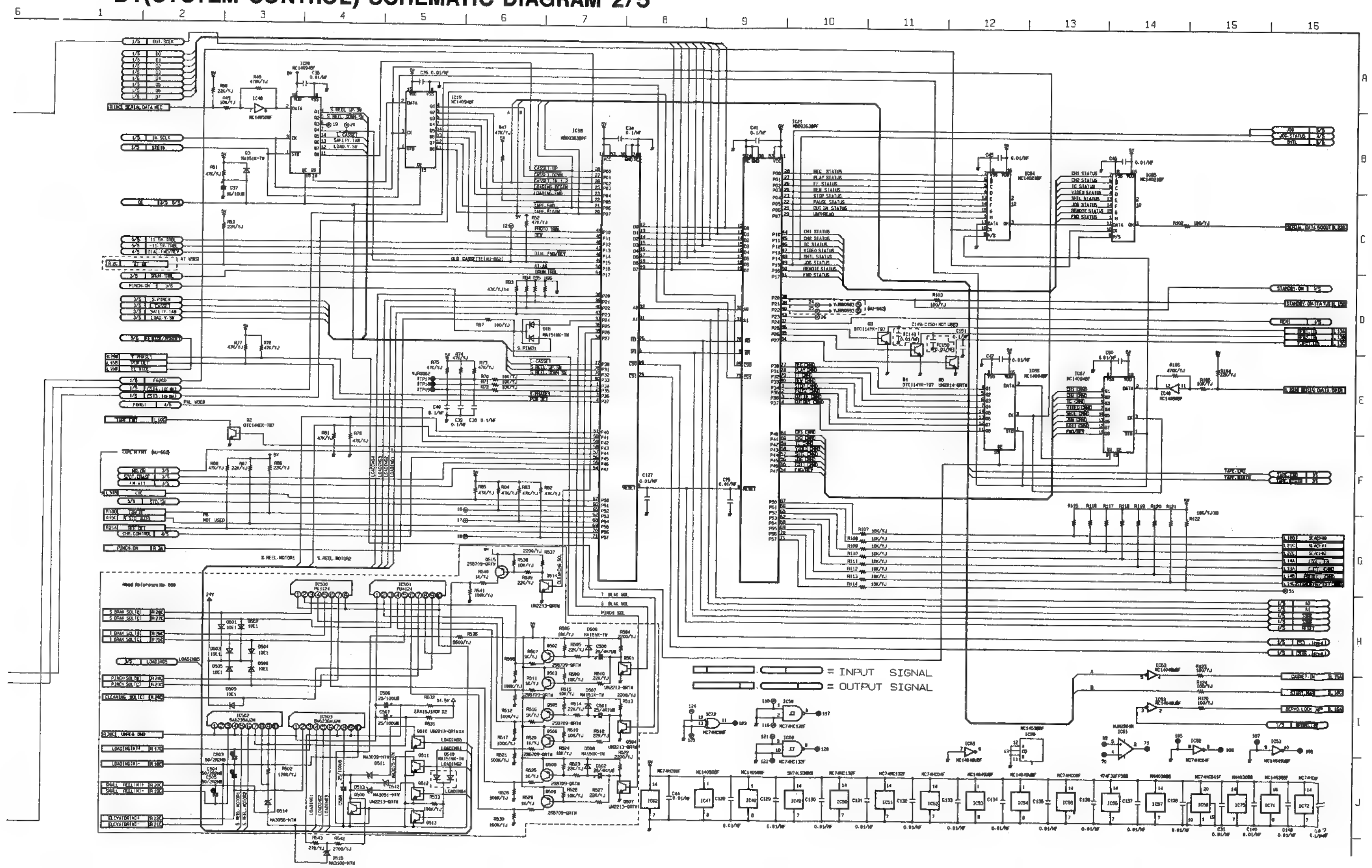


REVERSE SIDE SYSTEM CONTROL  
SCHEMATIC DIAGRAM

SCM-18

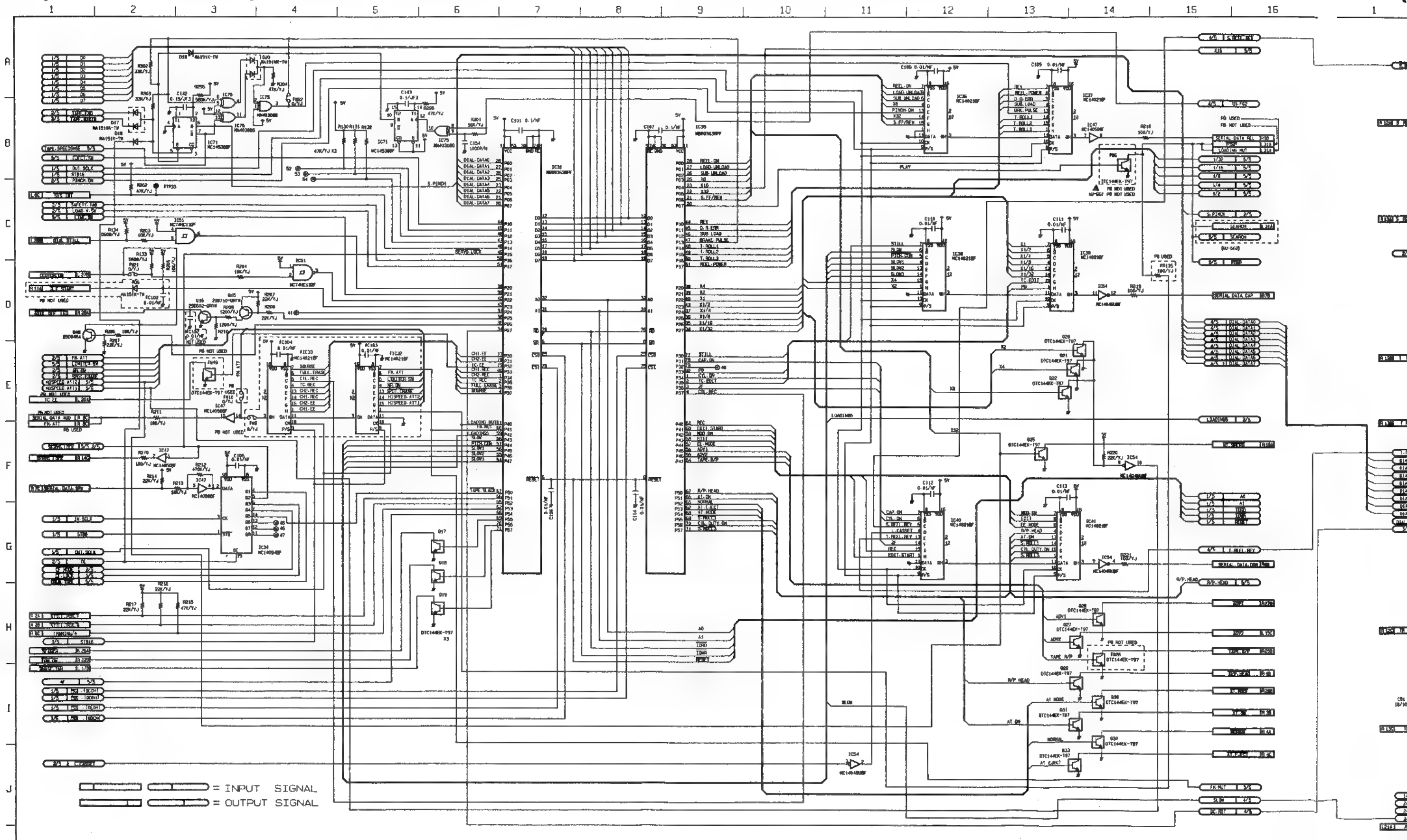


# B1(SYSTEM CONTROL) SCHEMATIC DIAGRAM 2/5



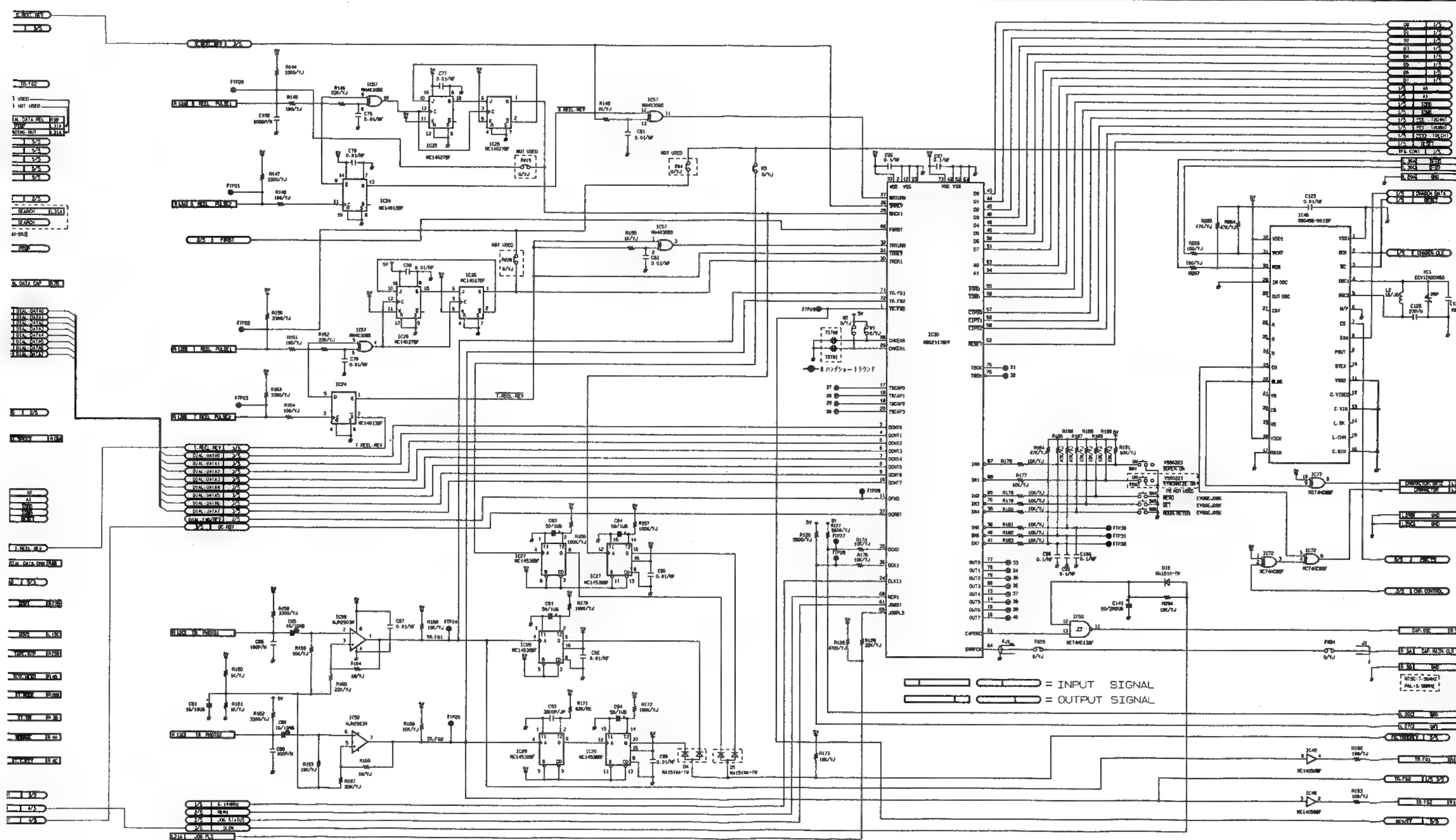
| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  | VEP86121A | VEP86121C | VEP86121B |
| PAL   | VEP86121D | VEP86121F | VEP86121E |

# B1(SYSTEM CONTROL) SCHEMATIC DIAGRAM 3/5




SYSTEM CONTROL, CONTINUING DIAGRAM 170

16 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

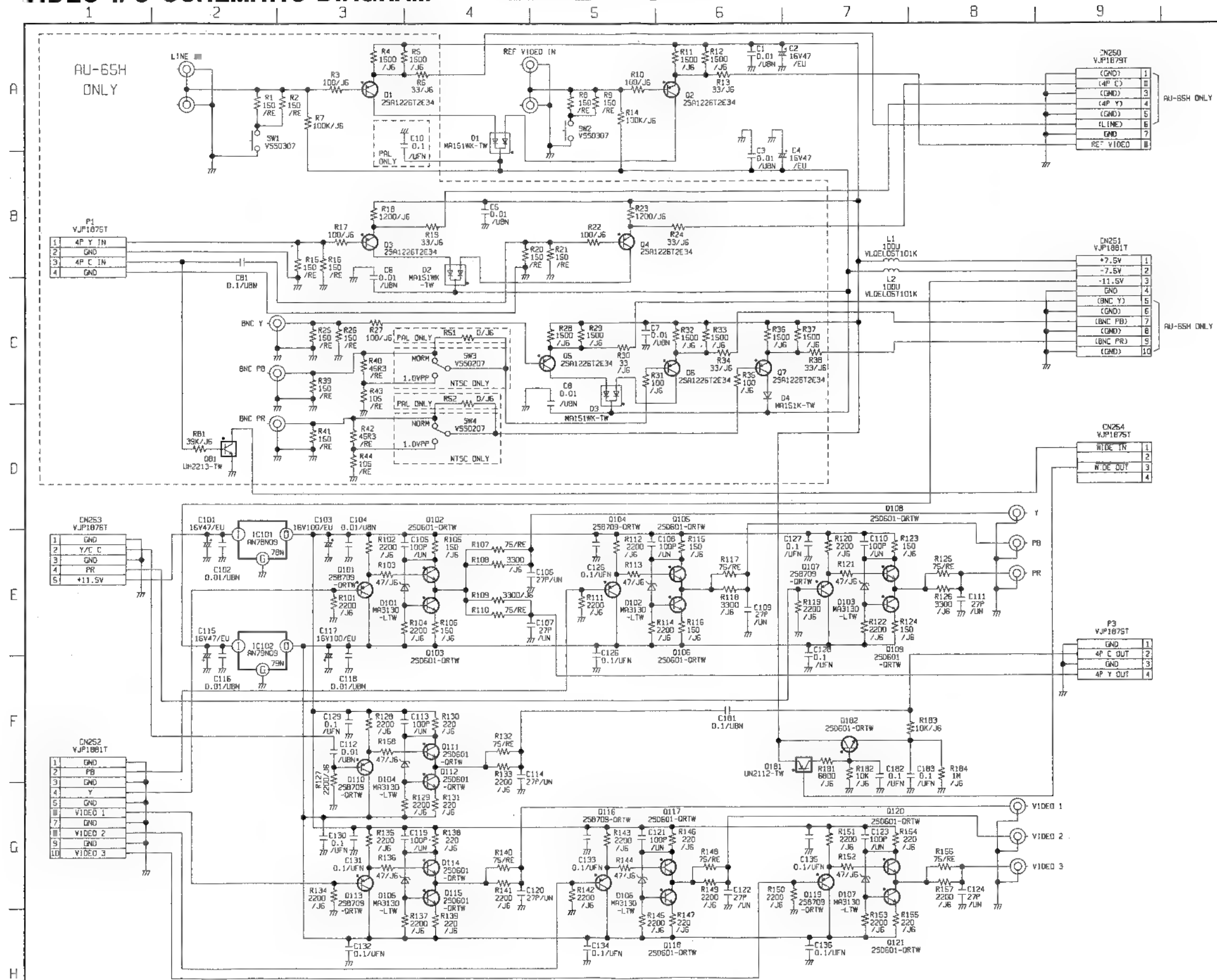


| MODEL<br>TYPE | AU-65H    | AU-63H    | AU-62H   |
|---------------|-----------|-----------|----------|
| NTSC          | VEP86121A | VEP86121C | VEP86121 |
| PAL           | VEP86121D | VEP86121F | VEP86121 |

 = INPUT SIGNAL  
 = OUTPUT SIGNAL

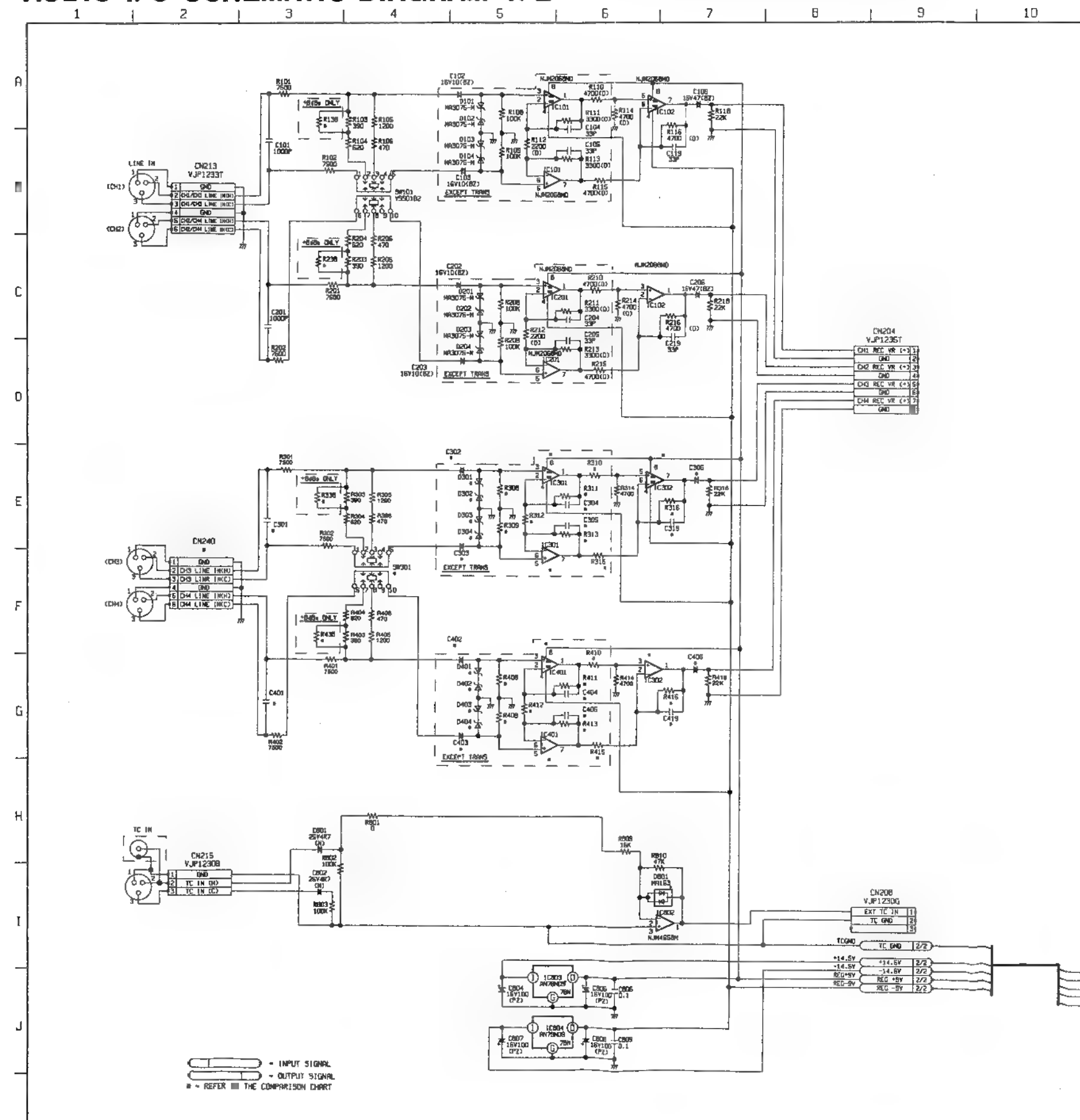
# VIDEO I/O SCHEMATIC DIAGRAM

| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  | VEP83174A | VEP83174B | VEP83174B |
| NTSC  | VEP83174C | VEP83174B | VEP83174B |
| PAL   |           |           |           |



| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  | VEP84094G | VEP84094C | VEP84094C |
| NTSC  | VEP84094G | VEP84094C | VEP84094C |
| PAL   | VEP84094G | VEP84094C | VEP84094C |

# AUDIO I/O SCHEMATIC DIAGRAM 1/2





AUDIO I/O SCHEMATIC DIAGRAM 2/2

9 10 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

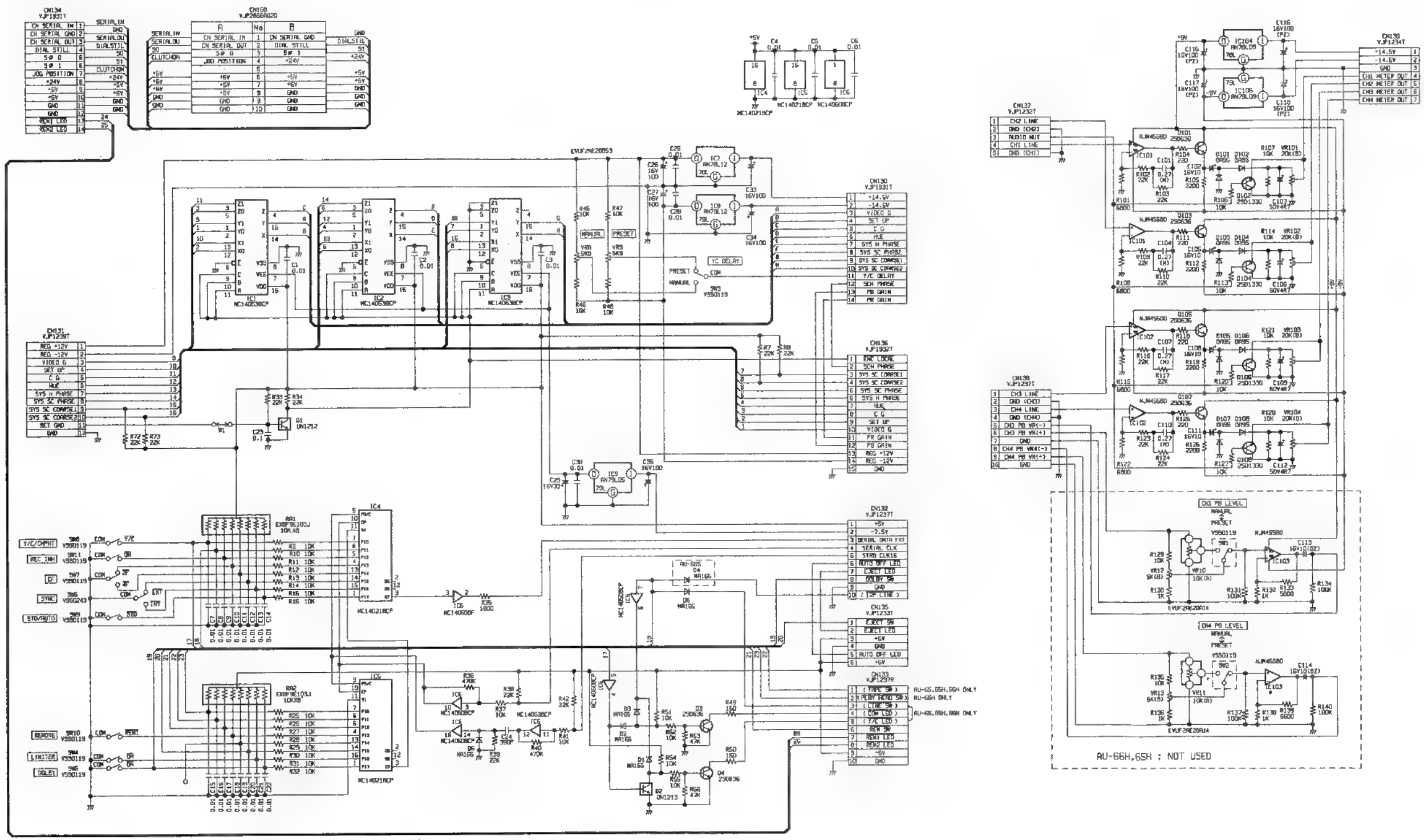
C116



# FRONT INTERFACE SCHEMATIC DIAGRAM

| MODEL TYPE | AU-65H    | AU-63H    | AU-62H    |
|------------|-----------|-----------|-----------|
| NTSC       | VEP80553D | VEP80553C | VEP80553B |
| PAL        | VEP80631D | VEP80631B | VEP80631C |

## FRONT INTERFACE SCHEMATIC DIAGRAM(FOR NTSC)



|     | AU-65H | AU-63H | AU-62H |
|-----|--------|--------|--------|
| C12 | 0.01   | 0      | 0      |
| C16 | 0.01   | 0      | 0.01   |
| C18 | 0.01   | 0      | 0      |
| C20 | 0.01   | 0      | 0      |

## REVERSE SIDE AUDIO I/O SCHEMATIC DIAGRAM

SCM-22

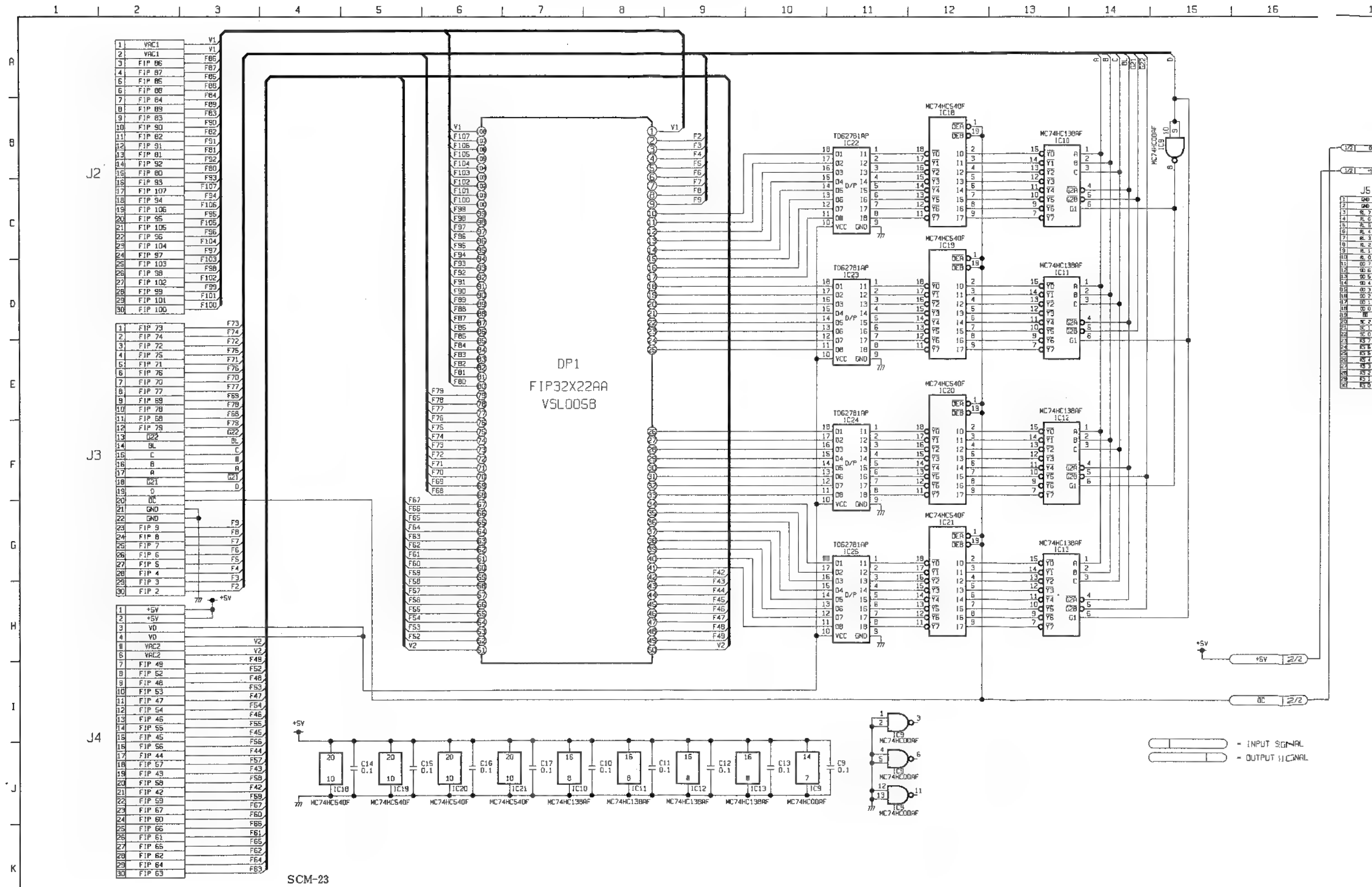


### FRONT INTERFACE SCHEMATIC DIAGRAM (FOR PAL)



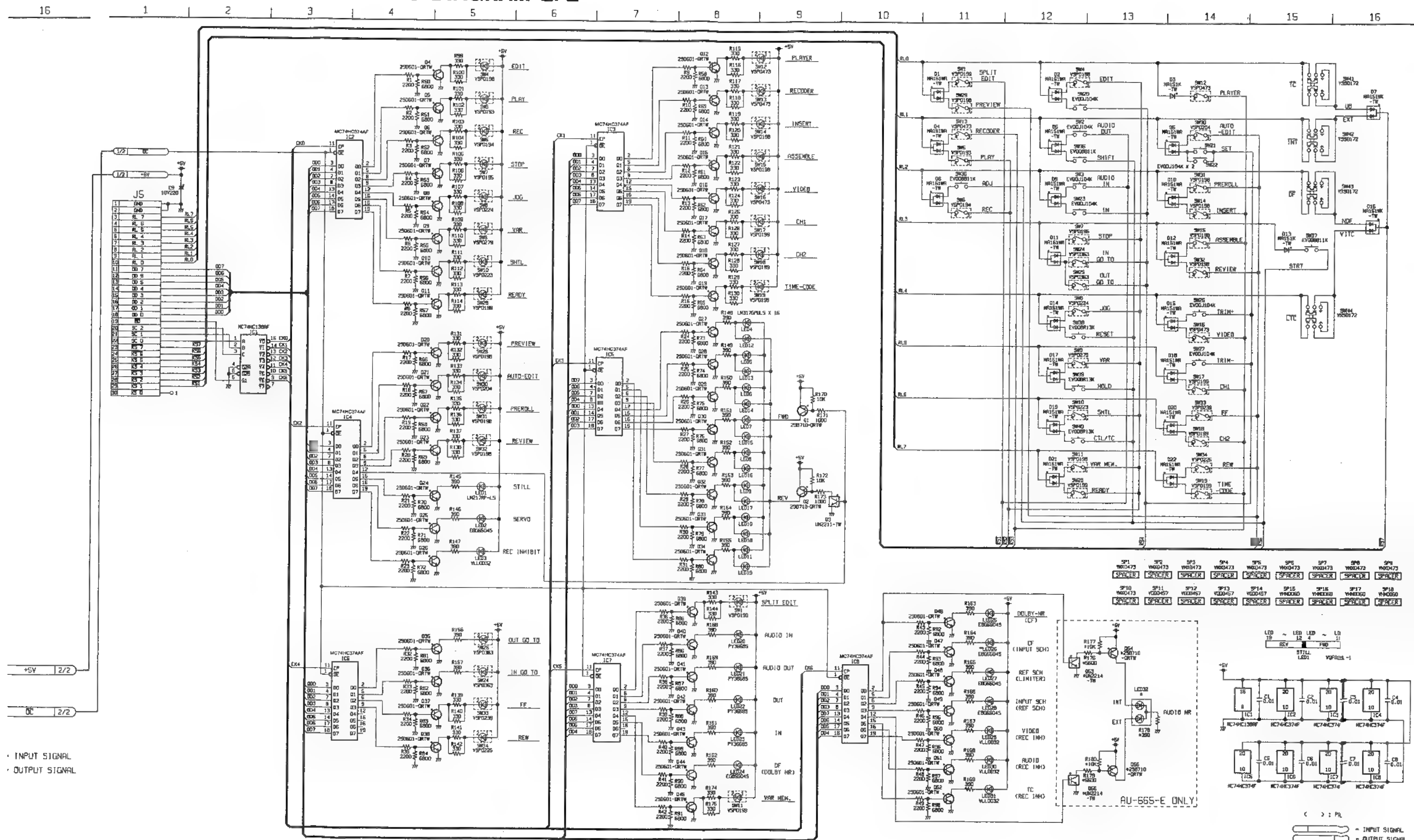
| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  | VEP86107A | VEP86086A | VEP86086A |
| PAL   | VEP86107B | VEP86086A | VEP86086A |

# FRONT PANEL A SCHEMATIC DIAGRAM 1/2



SCM-23

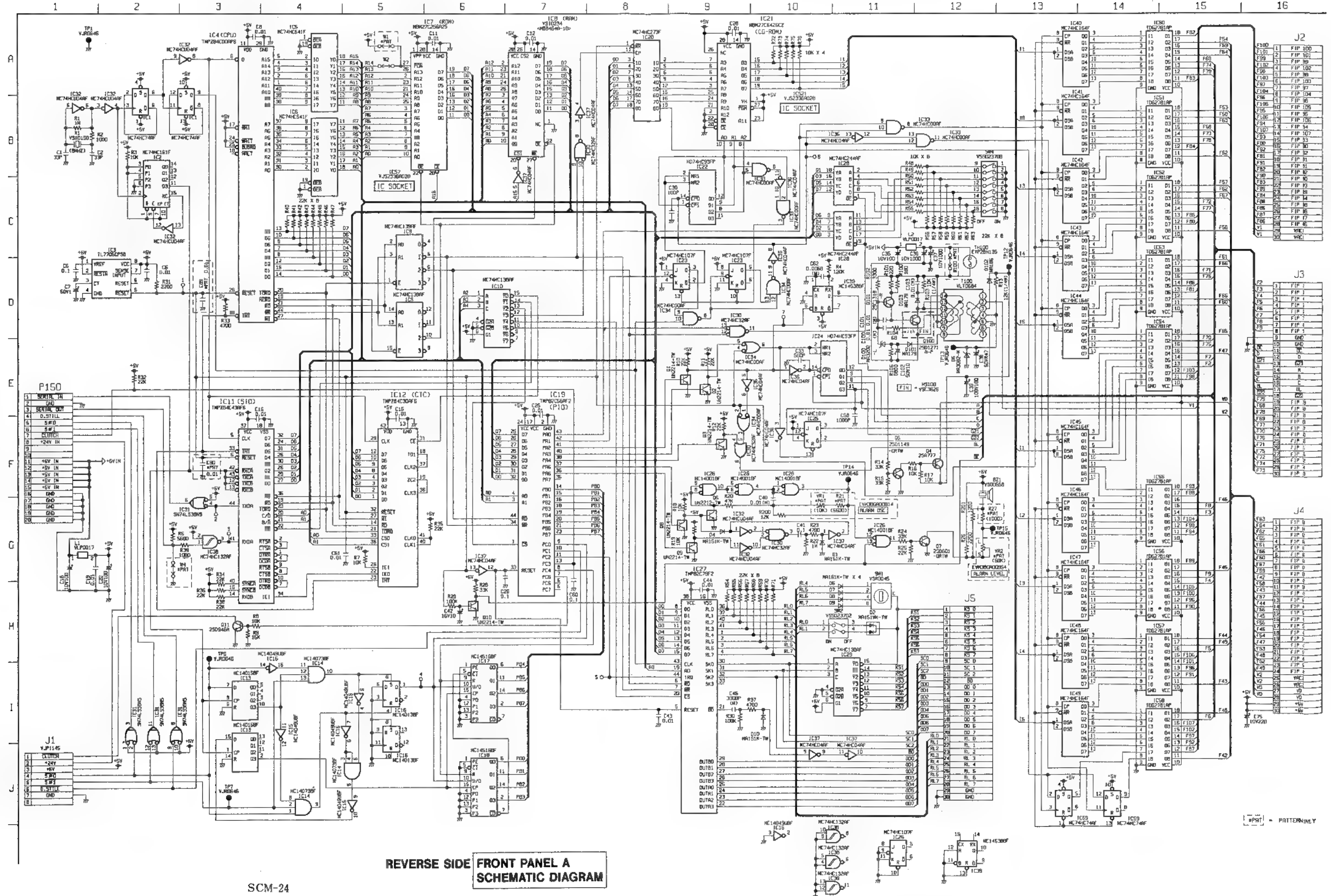
# FRONT PANEL A SCHEMATIC DIAGRAM 2/2



# FRONT PANEL B SCHEMATIC DIAGRAM

| MODEL TYPE | AU-65H    | AU-63H    | AU-62H    |
|------------|-----------|-----------|-----------|
| NTSC       | VEP86108C | VEP86076E | VEP86076E |
| PAL        | VEP86108D | VEP86076F | VEP86076F |

## FRONT PANEL B SCHEMATIC DIAGRAM 1/2



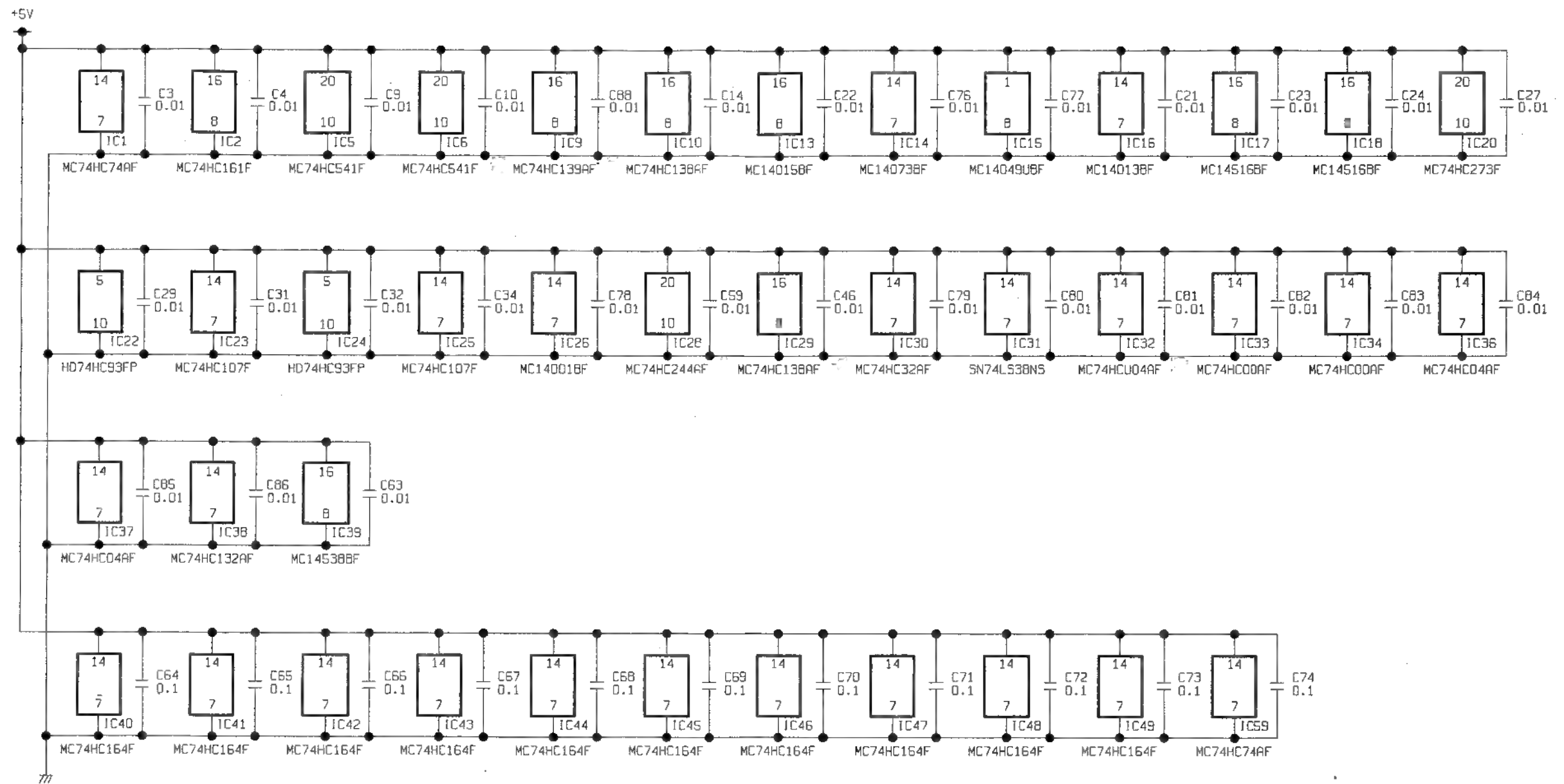
REVERSE SIDE FRONT PANEL A  
SCHEMATIC DIAGRAM

# FRONT PANEL B SCHEMATIC DIAGRAM 2/2

|         |
|---------|
| J2      |
| FIP 100 |
| FIP 101 |
| FIP 98  |
| FIP 102 |
| FIP 96  |
| FIP 103 |
| FIP 97  |
| FIP 104 |
| FIP 95  |
| FIP 105 |
| FIP 95  |
| FIP 106 |
| FIP 94  |
| FIP 107 |
| FIP 93  |
| FIP 108 |
| FIP 92  |
| FIP 91  |
| FIP 92  |
| FIP 90  |
| FIP 93  |
| FIP 89  |
| FIP 84  |
| FIP 85  |
| FIP 86  |
| FIP 87  |
| FIP 88  |
| WIC1    |
| WIC1    |

|        |
|--------|
| J3     |
| FIP 2  |
| FIP 3  |
| FIP 4  |
| FIP 5  |
| FIP 6  |
| FIP 7  |
| FIP 8  |
| FIP 9  |
| Q40    |
| Q40    |
| Q      |
| Q41    |
| A      |
| B      |
| E      |
| Q42    |
| FIP 75 |
| FIP 88 |
| FIP 76 |
| FIP 69 |
| FIP 72 |
| FIP 70 |
| FIP 76 |
| FIP 71 |
| FIP 76 |
| FIP 72 |
| FIP 74 |
| FIP 73 |

|        |
|--------|
| J4     |
| FIP 83 |
| FIP 84 |
| FIP 83 |
| FIP 85 |
| FIP 81 |
| FIP 86 |
| FIP 80 |
| FIP 87 |
| FIP 89 |
| FIP 42 |
| FIP 43 |
| FIP 44 |
| FIP 47 |
| FIP 45 |
| FIP 46 |
| FIP 44 |
| FIP 47 |
| FIP 53 |
| FIP 48 |
| FIP 52 |
| FIP 49 |
| WIC2   |
| WIC2   |
| V0     |
| V0     |
| +5V    |
| +5V    |



ITEM ONLY



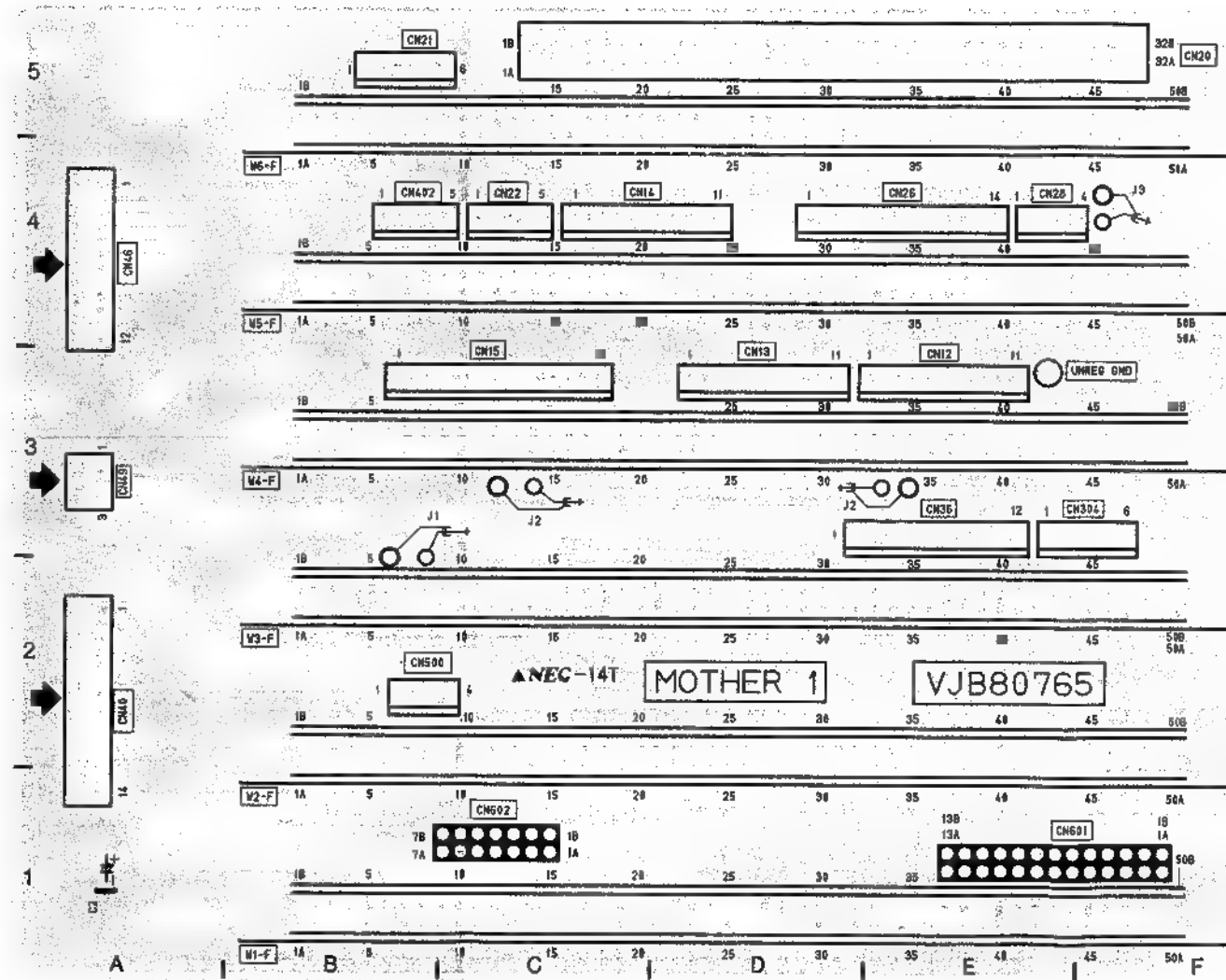
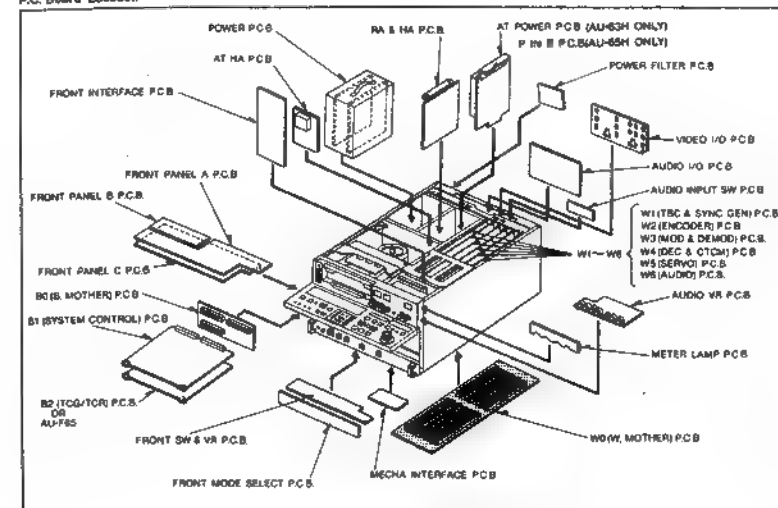
# WO(MOTHER 1) P.C.BOARD

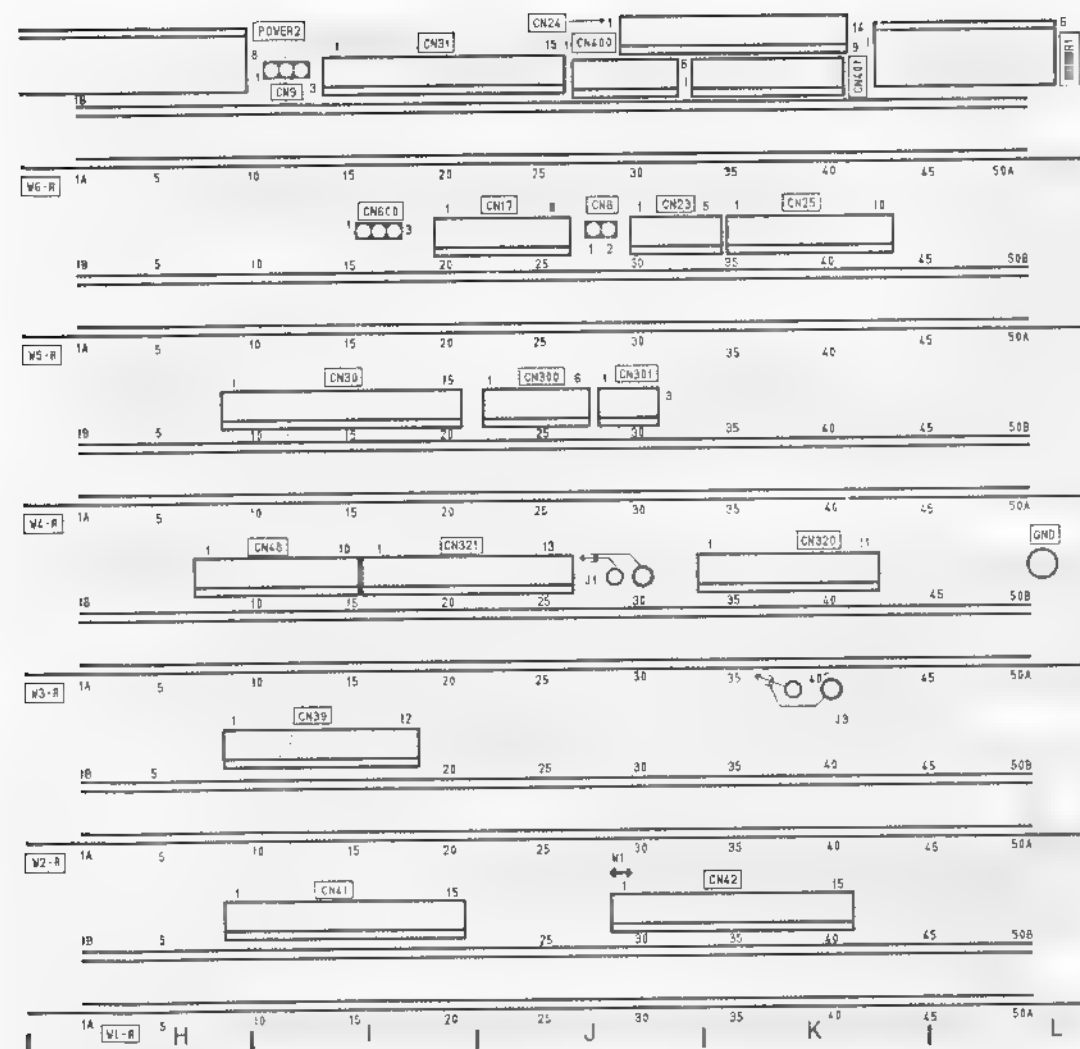
| MODEL TYPE | AU-65H    | AU-63H    | AU-62H    |
|------------|-----------|-----------|-----------|
| NTSC       | VEP80765A | VEP80765C | VEP80765B |
| PAL        | VEP80765A | VEP80765C | VEP80765B |

## MOTHER P.C. BOARD

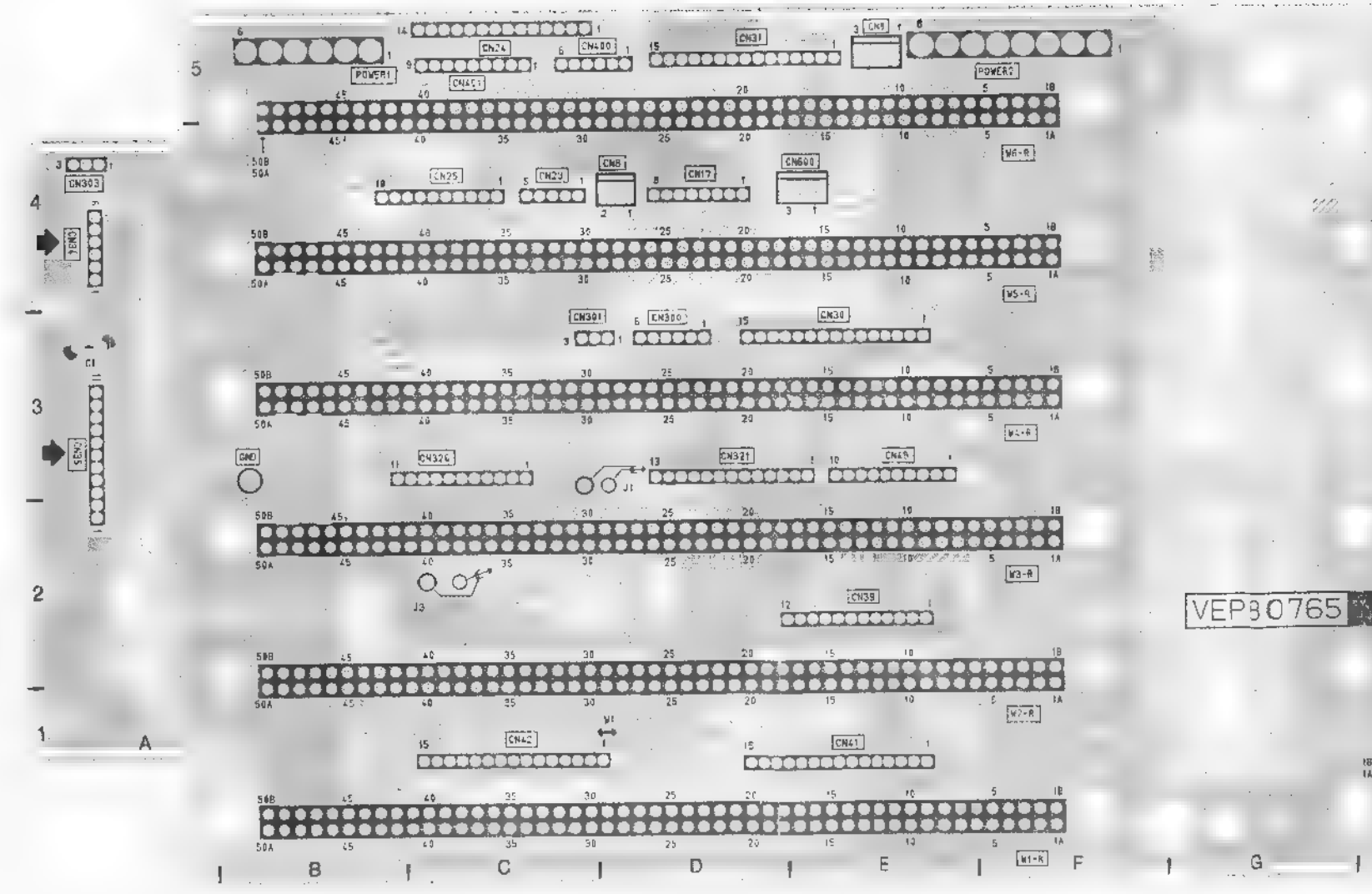
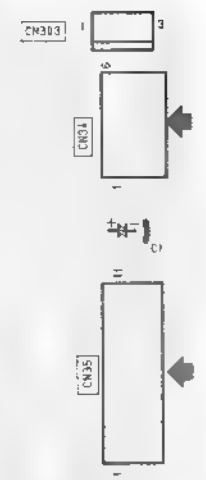
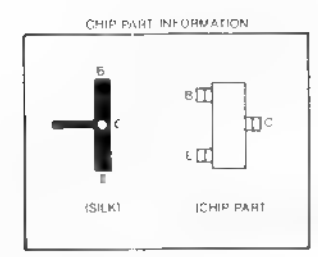
| COMPONENT SIDE |     |       |     |
|----------------|-----|-------|-----|
| CONNECTOR      |     |       |     |
| CN8            | J-4 | CN41  | I-1 |
| CN9            | I-5 | CN42  | K-1 |
| CN12           | E-3 | CN46  | A-4 |
| CN13           | D-3 | CN48  | I-3 |
| CN14           | C-4 | CN49  | A-3 |
| CN15           | C-3 | CN300 | J-3 |
| CN17           | J-4 | CN301 | J-3 |
| CN20           | D-5 | CN303 | M-4 |
| CN21           | B-5 | CN304 | F-3 |
| CN22           | C-4 | CN320 | K-3 |
| CN23           | J-4 | CN321 | I-3 |
| CN24           | X-5 | CN400 | J-5 |
| CN25           | X-4 | CN401 | K-5 |
| CN26           | E-4 | CN402 | B-4 |
| CN28           | E-4 | CN500 | B-2 |
| CN30           | I-3 | CN600 | I-4 |
| CN31           | I-5 | CN601 | E-1 |
| CN34           | M-4 | CN602 | C-1 |
| CN35           | M-3 |       |     |
| CN36           | E-3 |       |     |
| CN39           | I-2 |       |     |
| CN40           | A-2 |       |     |

P.C. Board Location

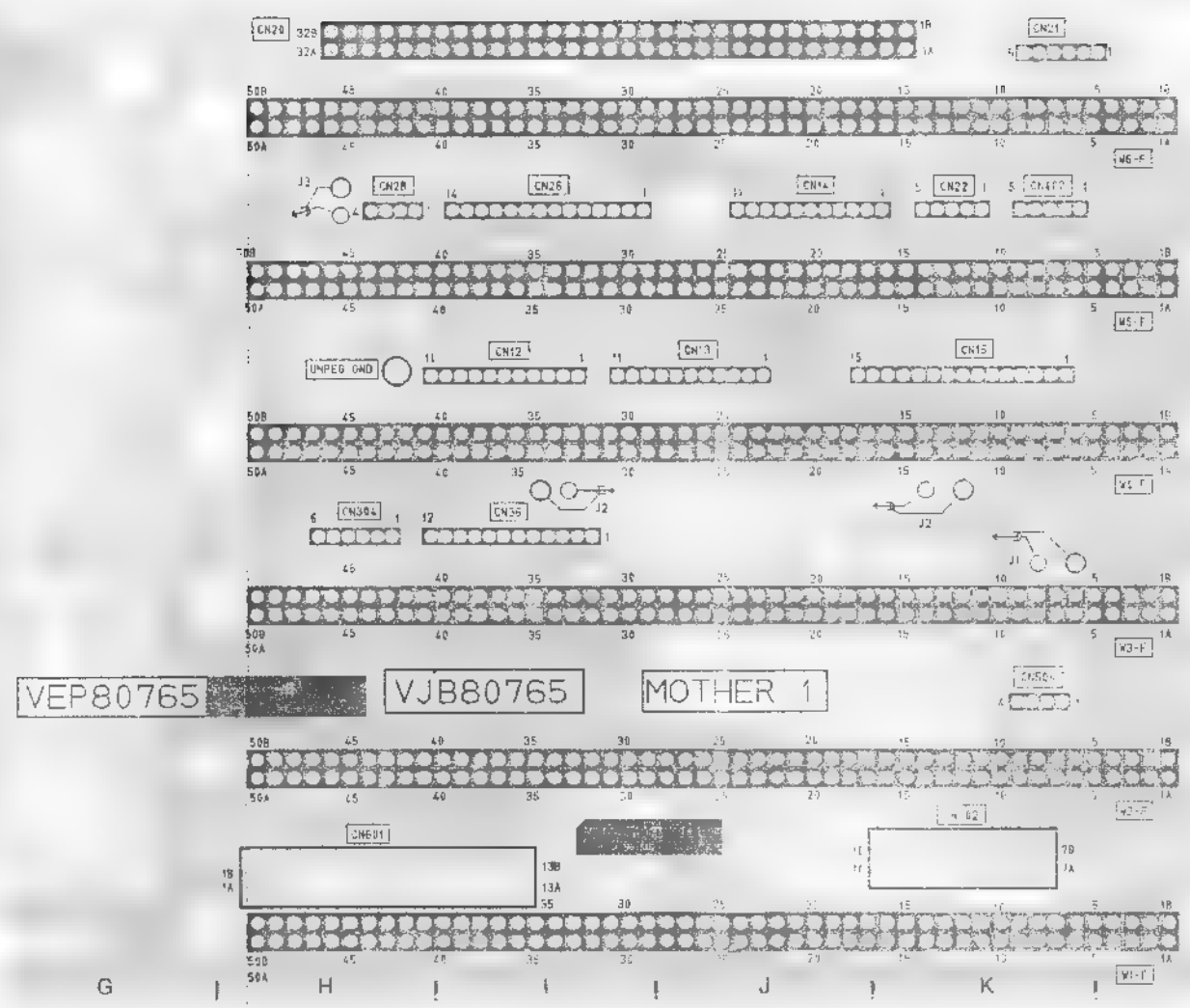
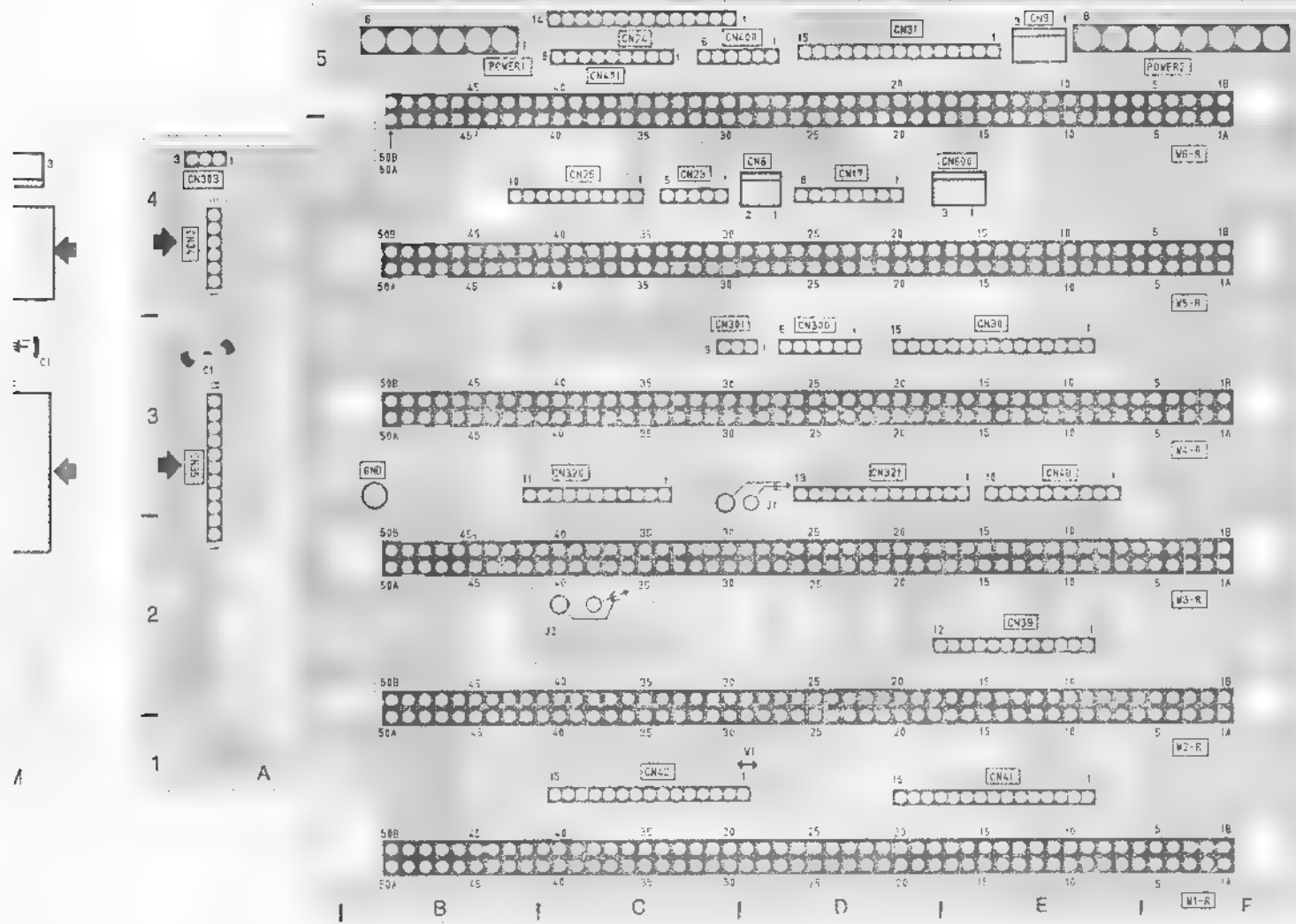
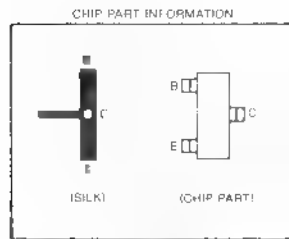




(COMPONENT SIDE)



VEP80765



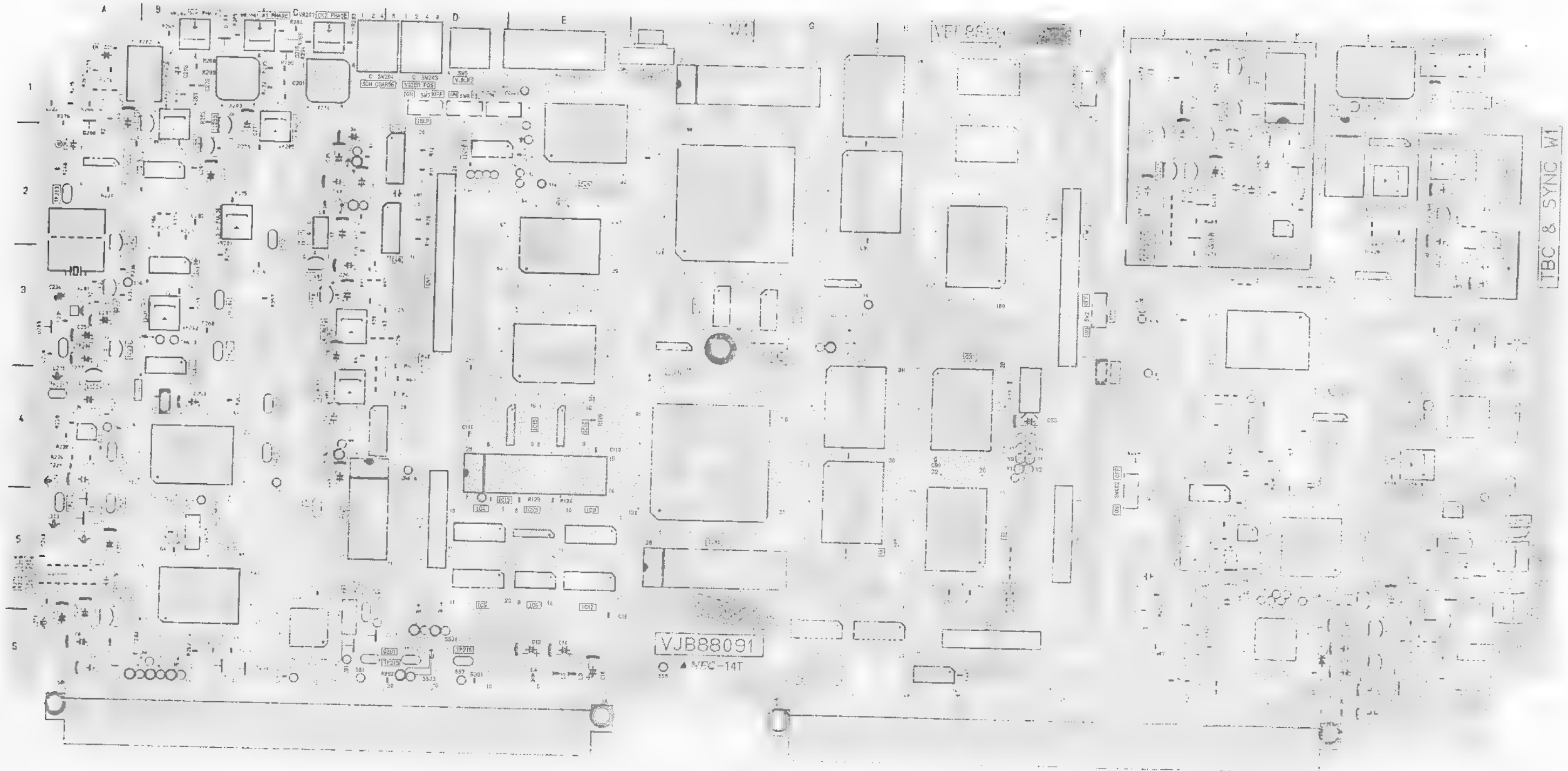
VEP80765 VJB80765 MOTHER 1

(FOIL SIDE)

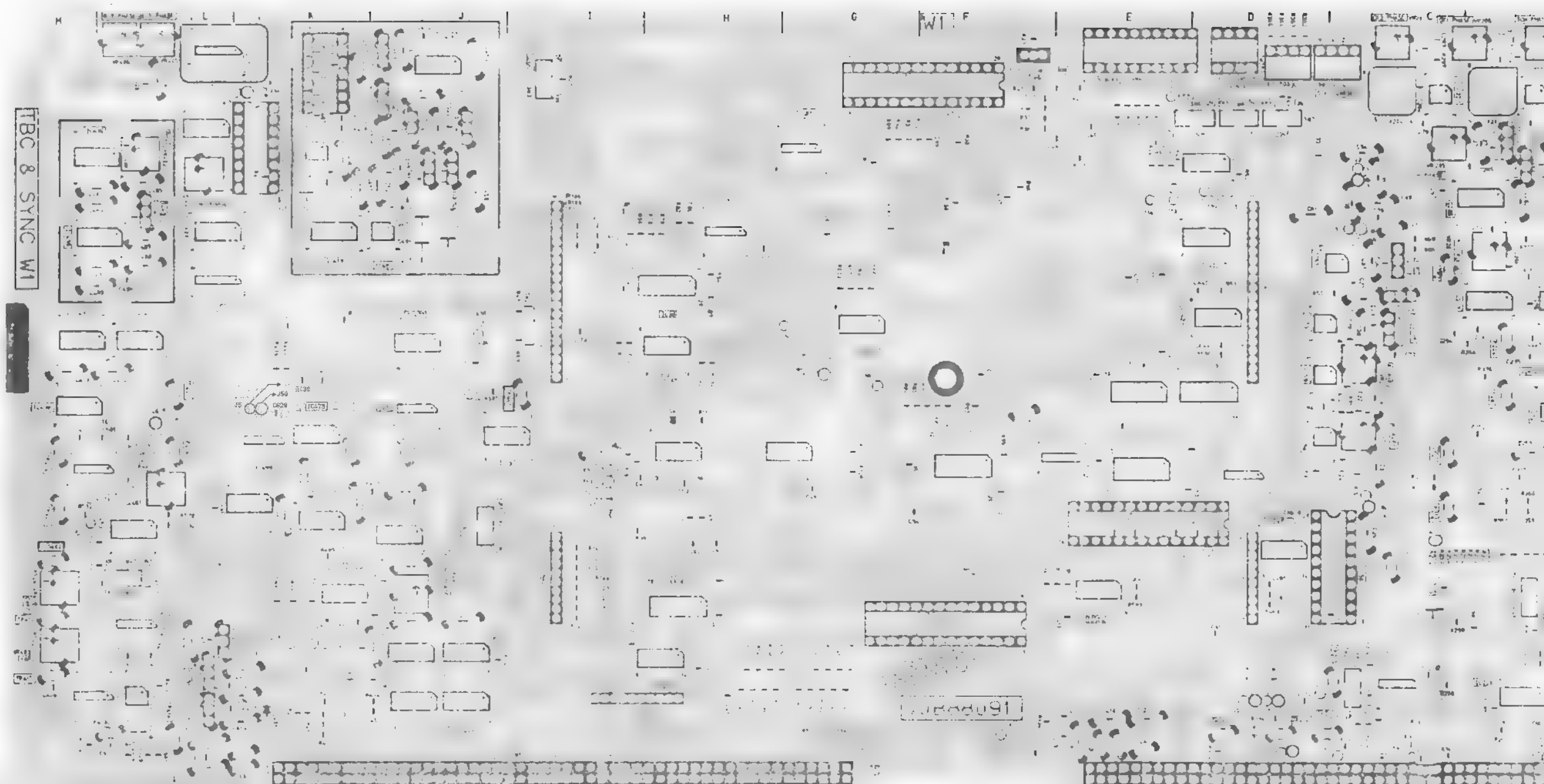
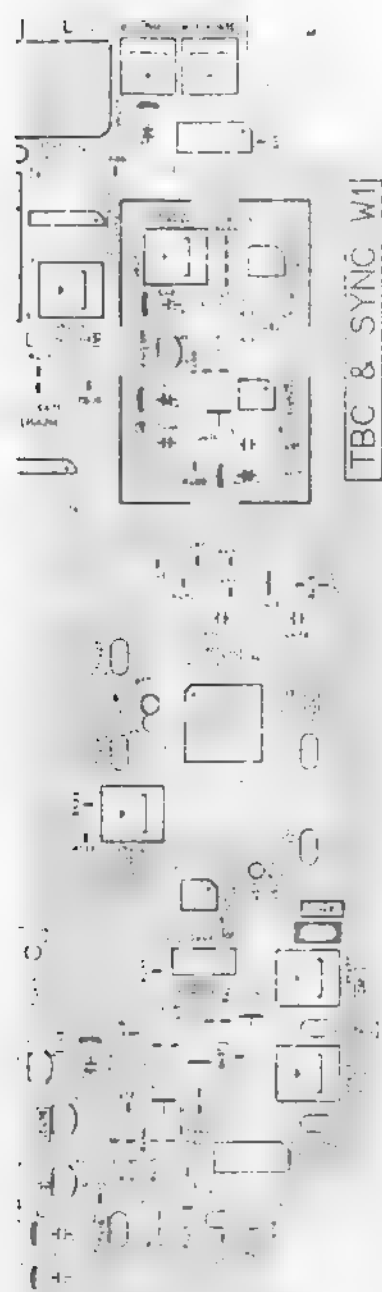


# W1(TBC & SYNC GEN) P.C.BOARD

| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  | VEP88091A | VEP88091A | VEP88091A |
| NTSC  | VEP88091C | VEP88091C | VEP88091C |
| PAL   |           |           |           |



(COMPONENT SIDE)



MPONENT SIDE)



# TBC & SYNC P.C. BOARD

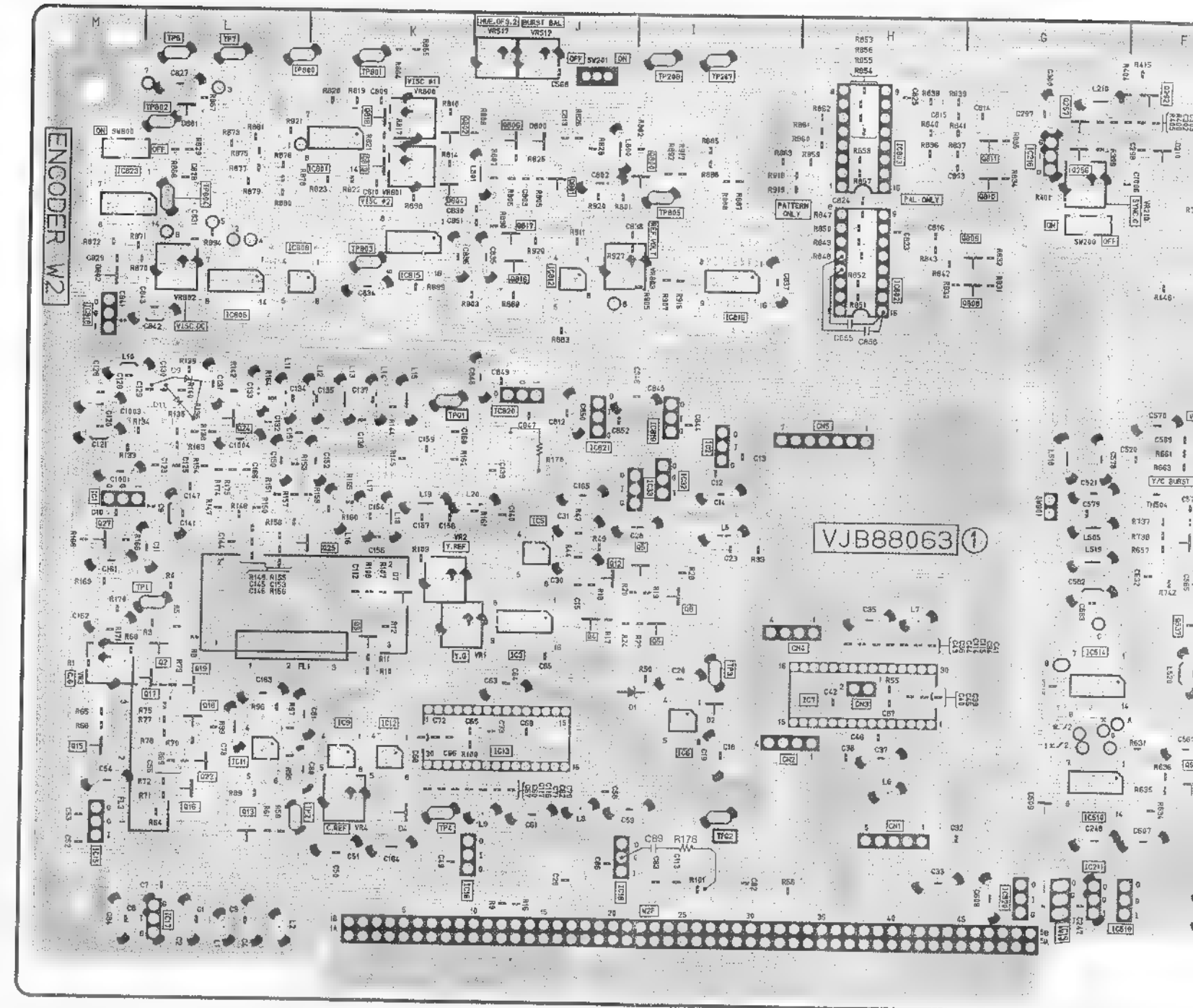
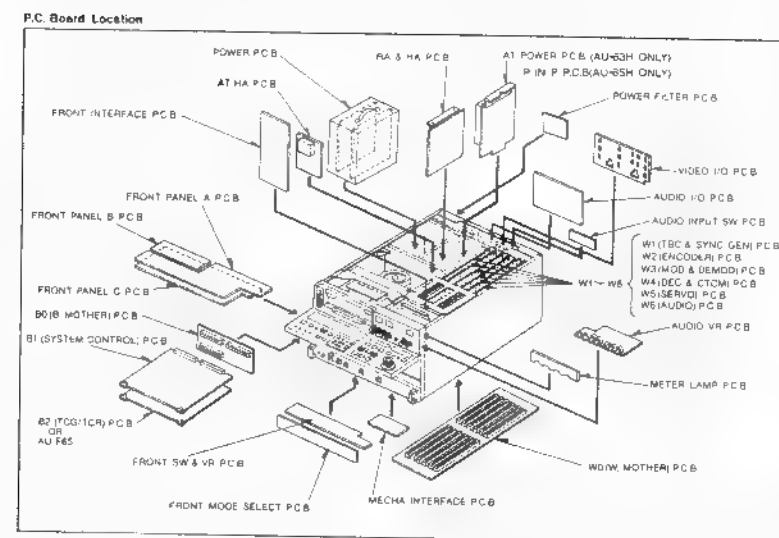
| COMPONENT SIDE        |     |       |     |            |     |           |     |                       |     | FOIL SIDE |     |  |  |
|-----------------------|-----|-------|-----|------------|-----|-----------|-----|-----------------------|-----|-----------|-----|--|--|
| TRANSISTOR            |     | IC56  | C-5 | TEST POINT |     | VR408     | M-5 | TRANSISTOR            |     | IC409     | J-6 |  |  |
| Q201                  | C-6 | IC58  | D-2 | TP1        | C-5 | VR409     | L-2 | Q402                  | J-2 | IC411     | K-5 |  |  |
| Q202                  | A-5 | IC81  | F-3 | TP2        | C-2 | VR410     | L-4 | Q404                  | J-2 | IC412     | J-6 |  |  |
| Q203                  | A-3 | IC83  | G-3 | TP201      | A-5 | CONNECTOR |     | INTEGRATED<br>CIRCUIT |     | IC413     | K-4 |  |  |
| Q204                  | A-2 | IC202 | C-6 | TP202      | A-5 |           |     |                       |     | IC415     | J-5 |  |  |
| Q403                  | J-2 | IC203 | B-4 | TP203      | A-2 |           |     |                       |     | IC418     | J-1 |  |  |
| Q405                  | L-5 | IC204 | B-5 | TP204      | B-3 |           |     |                       |     | IC419     | K-2 |  |  |
| Q406                  | M-5 | IC205 | A-2 | TP205      | A-4 |           |     |                       |     | IC421     | K-2 |  |  |
| Q408                  | L-5 | IC208 | B-3 | TP206      | A-3 | CN1       | D-3 | IC3                   | I-4 | IC428     | L-3 |  |  |
| INTEGRATED<br>CIRCUIT |     | IC210 | A-4 | TP207      | B-3 | CN2       | D-5 | IC11                  | D-2 | IC429     | L-2 |  |  |
|                       |     | IC213 | B-2 | TP208      | A-4 | CN3       | I-6 | IC14                  | E-4 | IC433     | M-3 |  |  |
|                       |     | IC220 | B-3 | TP210      | C-5 | CN4       | I-5 | IC18                  | E-3 | IC434     | L-3 |  |  |
|                       |     | IC228 | A-6 | TP211      | C-4 | CN5       | I-2 | IC19                  | D-3 | IC436     | M-2 |  |  |
|                       |     | IC229 | A-4 | TP212      | C-4 | IC22      | H-5 | IC439                 | M-2 |           |     |  |  |
| IC4                   | D-5 | IC230 | A-3 | TP213      | D-6 |           |     | IC23                  | H-5 | IC441     | L-6 |  |  |
| IC5                   | D-5 | IC231 | B-1 | TP214      | D-6 |           |     | IC36                  | H-3 | IC444     | L-6 |  |  |
| IC6                   | E-5 | IC232 | B-2 | TP215      | D-6 |           |     | IC54                  | D-4 | IC445     | L-5 |  |  |
| IC7                   | E-3 | IC233 | B-1 | TP412      | M-5 |           |     | IC55                  | D-3 | IC446     | L-4 |  |  |
| IC8                   | H-6 | IC402 | J-4 | TP413      | L-6 |           |     | IC57                  | C-2 | IC471     | J-3 |  |  |
| IC9                   | E-5 | IC405 | K-6 | TP416      | L-6 |           |     | IC59                  | D-3 | IC472     | L-3 |  |  |
| IC10                  | G-6 | IC410 | K-5 | TP417      | M-5 |           |     | IC70                  | D-4 | IC473     | K-4 |  |  |
| IC12                  | E-5 | IC416 | K-5 | TP422      | J-4 |           |     | IC71                  | E-4 | IC477     | L-1 |  |  |
| IC13                  | E-4 | IC420 | K-2 | TP423      | K-4 |           |     | IC72                  | F-4 | IC478     | L-1 |  |  |
| IC15                  | E-4 | IC422 | J-1 | TP424      | M-4 |           |     | IC77                  | H-2 | IC481     | J-2 |  |  |
| IC16                  | E-4 | IC423 | J-2 | TP425      | M-4 |           |     | IC80                  | G-2 | IC489     | D-3 |  |  |
| IC17                  | E-2 | IC424 | K-1 | TP426      | L-4 |           |     | IC82                  | G-3 | IC497     | M-4 |  |  |
| IC20                  | G-3 | IC425 | K-2 | TP427      | L-3 |           |     | IC201                 | A-5 | IC498     | M-3 |  |  |
| IC21                  | F-3 | IC426 | L-2 | ADJUSTMENT |     |           |     | IC206                 | B-2 | IC499     | K-4 |  |  |
| IC24                  | H-5 | IC427 | L-1 |            |     | TPG201    | B-4 | IC207                 | B-2 | IC502     | E-5 |  |  |
| IC25                  | H-2 | IC430 | L-5 |            |     | TPG401    | I-3 | IC209                 | A-4 | IC504     | H-3 |  |  |
| IC26                  | H-1 | IC431 | L-5 |            |     | TPG402    | M-5 | IC211                 | A-2 |           |     |  |  |
| IC27                  | H-1 | IC432 | L-6 |            |     |           |     | IC212                 | B-3 |           |     |  |  |
| IC28                  | G-4 | IC435 | M-2 | VR1        | C-4 | IC214     | B-3 |                       |     |           |     |  |  |
| IC29                  | G-4 | IC437 | L-2 | VR2        | C-3 | IC216     | A-1 |                       |     |           |     |  |  |
| IC30                  | H-4 | IC438 | M-2 | VR201      | B-2 | IC217     | A-1 |                       |     |           |     |  |  |
| IC31                  | G-1 | IC442 | M-6 | VR202      | B-3 | IC218     | C-5 |                       |     |           |     |  |  |
| IC32                  | G-2 | IC443 | L-1 | VR203      | B-2 | IC221     | B-1 |                       |     |           |     |  |  |
| IC33                  | F-4 | IC447 | L-4 | VR204      | B-1 | IC222     | C-1 |                       |     |           |     |  |  |
| IC34                  | F-2 | IC448 | H-6 | VR205      | C-2 | IC223     | B-3 |                       |     |           |     |  |  |
| IC35                  | F-5 | IC470 | K-3 | VR206      | B-1 | IC224     | B-6 |                       |     |           |     |  |  |
| IC37                  | F-1 | IC474 | J-2 | VR207      | C-1 | IC225     | B-5 |                       |     |           |     |  |  |
| IC45                  | E-2 | IC475 | J-1 | VR401      | J-5 | IC226     | B-6 |                       |     |           |     |  |  |
| IC46                  | D-4 | IC476 | J-1 | VR402      | L-2 | IC240     | D-2 |                       |     |           |     |  |  |
| IC47                  | D-2 | IC479 | L-4 | VR403      | M-5 | IC241     | D-4 |                       |     |           |     |  |  |
| IC48                  | D-2 | IC480 | J-1 | VR405      | L-1 | IC401     | J-5 |                       |     |           |     |  |  |
| IC49                  | C-3 | IC500 | K-4 | VR406      | L-1 | IC403     | J-4 |                       |     |           |     |  |  |
| IC50                  | C-3 |       |     |            |     | IC404     | K-4 |                       |     |           |     |  |  |
| IC51                  | C-2 |       |     |            |     |           |     |                       |     |           |     |  |  |
| IC53                  | E-5 |       |     |            |     |           |     |                       |     |           |     |  |  |

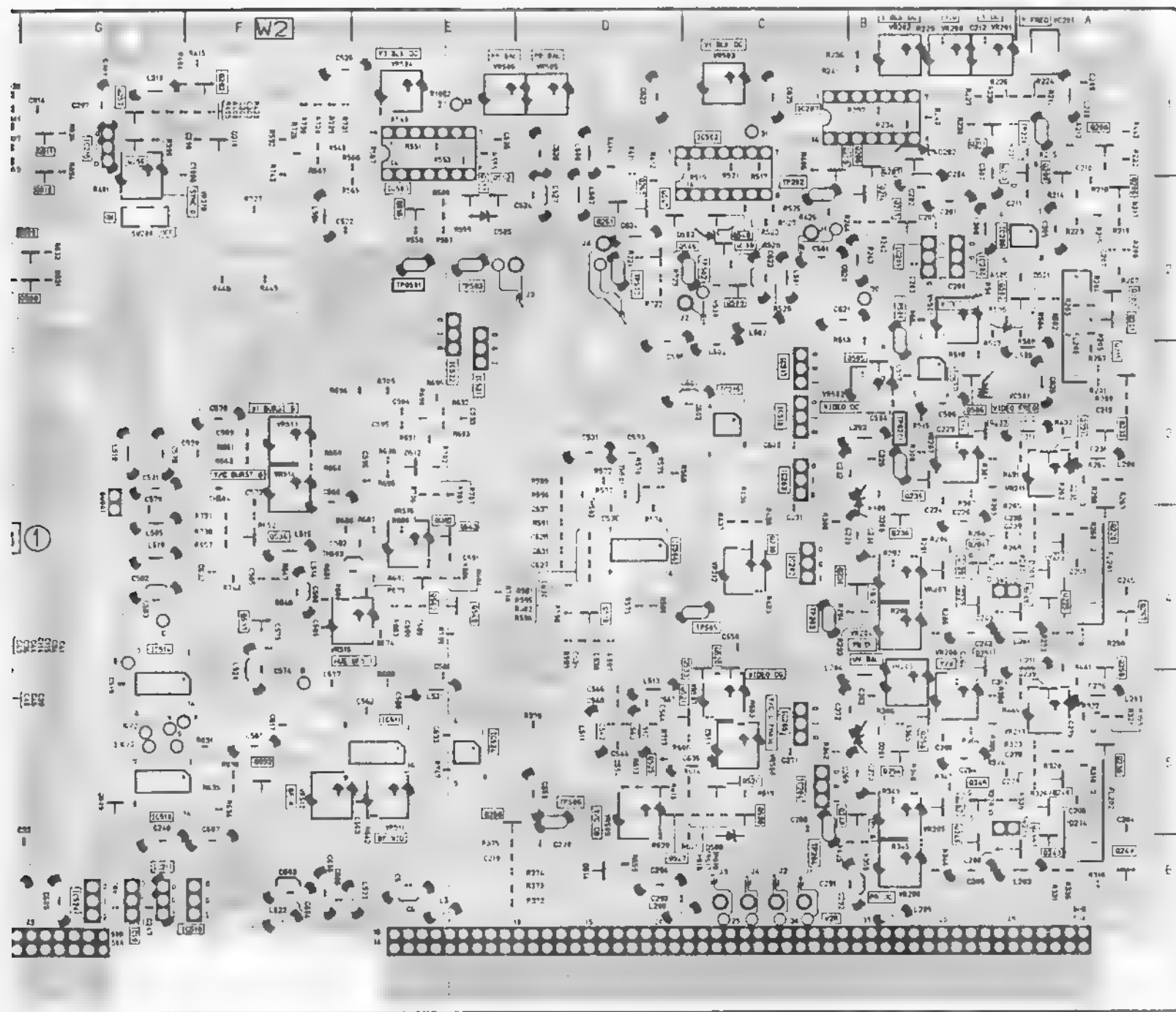
# W2 (ENCODER)

| COMPONENT SIDE |     |            |     |             |     |        |       |            |      | FOIL SIDE |            |       |     |  |  |  |  |  |  |
|----------------|-----|------------|-----|-------------|-----|--------|-------|------------|------|-----------|------------|-------|-----|--|--|--|--|--|--|
| Transistors    |     | Q813       | H-2 | IC802       | H-2 | VR201  | B-1   | Transistor |      | Q259      | C-1        | IC215 | C-3 |  |  |  |  |  |  |
|                |     | Q814       | H-1 | IC803       | H-1 | VR202  | B-1   |            |      | Q260      | D-2        | IC501 | B-3 |  |  |  |  |  |  |
| Q1             | L-4 | Q815       | H-1 | IC804       | L-1 | VR203  | B-4   | Q2         | L-4  | Q261      | D-2        | IC504 | D-4 |  |  |  |  |  |  |
| Q7             | I-4 | Integrated |     | IC805       | I-1 | VR204  | B-4   | Q3         | K-4  | Q267      | A-4        | IC510 | G-5 |  |  |  |  |  |  |
| Q9             | I-4 | Circuits   |     | IC807       | L-2 | VR205  | B-5   | Q4         | J-4  | Q284      | B-4        | IC511 | E-5 |  |  |  |  |  |  |
| Q10            | J-6 |            |     | IC809       | K-2 | VR206  | B-6   | Q5         | I-4  | Q286      | B-1        | IC514 | G-5 |  |  |  |  |  |  |
| Q11            | I-4 |            |     | IC810       | J-2 | VR207  | B-3   | Q6         | I-4  | Q287      | B-1        | IC524 | E-5 |  |  |  |  |  |  |
| Q14            | L-6 | IC1        | M-4 | IC811       | J-2 | VR208  | B-5   | Q8         | I-4  | Q290      | C-4        | IC801 | K-1 |  |  |  |  |  |  |
| Q20            | L-5 | IC2        | I-3 | IC813       | I-2 | VR209  | B-5   | Q12        | J-4  | Q292      | F-1        | IC806 | L-2 |  |  |  |  |  |  |
| Q21            | J-6 | IC4        | I-4 | IC814       | I-1 | VR210  | G-1   | Q13        | L-6  | Q502      | A-2        | IC808 | L-2 |  |  |  |  |  |  |
| Q22            | L-5 | IC7        | H-5 | IC817       | I-2 | VR211  | A-3   | Q15        | M-5  | Q505      | B-3        | IC812 | J-2 |  |  |  |  |  |  |
| Q26            | K-4 | IC8        | I-6 | IC818       | M-2 | VR212  | C-4   | Q16        | L-5  | Q506      | B-3        | IC815 | K-2 |  |  |  |  |  |  |
| Q28            | M-4 | IC10       | L-5 | IC819       | I-3 | VR213  | A-5   | Q17        | L-5  | Q508      | C-2        | IC816 | I-2 |  |  |  |  |  |  |
| Q200           | A-3 | IC13       | K-5 | IC820       | J-3 | VR501  | B-2   | Q18        | L-5  | Q509      | C-2        | IC823 | M-2 |  |  |  |  |  |  |
| Q203           | A-2 | IC14       | I-6 | IC821       | J-3 | VR502  | B-3   | Q19        | L-5  | Q516      | E-2        |       |     |  |  |  |  |  |  |
| Q204           | A-2 | IC15       | M-6 | IC822       | M-2 | VR503  | C-1   | Q23        | L-5  | Q518      | D-4        |       |     |  |  |  |  |  |  |
| Q205           | A-2 | IC16       | J-6 | Test Points |     |        | VR504 | E-1        | Q24  | L-3       | Q520       | C-4   |     |  |  |  |  |  |  |
| Q207           | A-1 | IC17       | L-6 |             |     |        | VR505 | D-1        | Q25  | K-4       | Q521       | C-5   |     |  |  |  |  |  |  |
| Q212           | B-1 | IC18       | J-6 | TP1         | L-4 | VR506  | E-1   | Q27        | M-4  | Q525      | D-5        |       |     |  |  |  |  |  |  |
| Q219           | A-4 | IC19       | G-6 | TP2         | K-5 | VR507  | C-5   | Q201       | A-2  | Q526      | C-5        |       |     |  |  |  |  |  |  |
| Q223           | A-4 | IC26       | L-3 | TP3         | I-5 | VR508  | C-5   | Q202       | A-2  | Q527      | D-5        |       |     |  |  |  |  |  |  |
| Q224           | B-4 | IC27       | L-3 | TP4         | K-5 | VR509  | D-5   | Q206       | A-2  | Q528      | C-5        |       |     |  |  |  |  |  |  |
| Q234           | B-3 | IC28       | K-3 | TP6         | L-1 | VR510  | F-5   | Q208       | A-1  | Q532      | F-5        |       |     |  |  |  |  |  |  |
| Q237           | B-3 | IC29       | K-3 | TP7         | L-1 | VR511  | E-5   | Q209       | A-1  | Q533      | C-4        |       |     |  |  |  |  |  |  |
| Q241           | A-5 | IC30       | J-3 | TP201       | A-1 | VR512  | J-1   | Q210       | A-1  | Q534      | F-4        |       |     |  |  |  |  |  |  |
| Q242           | B-5 | IC32       | I-3 | TP202       | C-2 | VR513  | F-3   | Q211       | B-1  | Q537      | F-4        |       |     |  |  |  |  |  |  |
| Q252           | B-5 | IC33       | I-3 | TP203       | C-4 | VR514  | F-3   | Q213       | B-2  | Q542      | E-4        |       |     |  |  |  |  |  |  |
| Q255           | B-5 | IC200      | B-2 | TP204       | C-5 | VR515  | F-4   | Q214       | B-2  | Q543      | E-4        |       |     |  |  |  |  |  |  |
| Q262           | F-1 | IC201      | B-2 | TP206       | I-1 | VR516  | E-4   | Q215       | A-3  | Q545      | D-2        |       |     |  |  |  |  |  |  |
| Q263           | F-1 | IC202      | C-4 | TP207       | I-1 | VR517  | J-1   | Q220       | A-4  | Q547      | D-2        |       |     |  |  |  |  |  |  |
| Q265           | E-1 | IC203      | C-3 | TP501       | B-3 | VR800  | K-1   | Q221       | A-3  | Q548      | C-2        |       |     |  |  |  |  |  |  |
| Q266           | B-6 | IC204      | C-5 | TP502       | C-2 | VR801  | K-1   | Q222       | A-4  | Q549      | E-4        |       |     |  |  |  |  |  |  |
| Q285           | D-2 | IC205      | C-5 | TP503       | E-2 | VR802  | L-2   | Q225       | A-4  | Q551      | E-2        |       |     |  |  |  |  |  |  |
| Q288           | A-3 | IC207      | B-1 | TP505       | C-4 | VR803  | J-2   | Q226       | A-4  | Q552      | E-2        |       |     |  |  |  |  |  |  |
| Q289           | C-4 | IC208      | C-4 | TP506       | D-5 | VR805  | K-2   | Q227       | B-4  | Q800      | I-1        |       |     |  |  |  |  |  |  |
| Q291           | A-5 | IC209      | B-4 | TP507       | D-2 | Others |       | Q229       | B-4  | Q801      | J-2        |       |     |  |  |  |  |  |  |
| Q501           | A-2 | IC210      | B-5 | TP800       | L-1 | VC201  | A-1   | Q230       | B-4  | Q802      | K-1        |       |     |  |  |  |  |  |  |
| Q503           | A-2 | IC211      | G-6 | TP801       | K-1 | VC501  | B-3   | Q232       | A-3  | Q804      | K-2        |       |     |  |  |  |  |  |  |
| Q504           | B-2 | IC216      | G-1 | TP802       | L-1 |        |       | Q233       | B-3  | Q806      | J-1        |       |     |  |  |  |  |  |  |
| Q507           | C-2 | IC217      | F-2 | TP803       | K-2 |        |       | Q235       | B-3  | Q808      | G-2        |       |     |  |  |  |  |  |  |
| Q514           | E-2 | IC502      | C-1 | TP804       | L-2 | CN1    | H-6   | Q236       | B-4  | Q809      | G-2        |       |     |  |  |  |  |  |  |
| Q515           | E-2 | IC503      | E-1 | TP805       | I-2 | CN2    | H-5   | Q238       | A-5  | Q810      | G-1        |       |     |  |  |  |  |  |  |
| Q519           | D-4 | IC505      | D-4 | TP GND      |     |        | CN3   | H-5        | Q239 | A-5       | Q811       | G-1   |     |  |  |  |  |  |  |
| Q522           | C-5 | IC506      | F-1 |             |     |        | CN4   | H-4        | Q240 | A-5       | Q816       | J-2   |     |  |  |  |  |  |  |
| Q523           | C-5 | IC507      | F-5 |             |     |        | CN5   | H-3        | Q243 | A-6       | Q817       | J-2   |     |  |  |  |  |  |  |
| Q524           | C-5 | IC508      | F-4 | TPG1        | K-3 |        |       |            | Q244 | A-5       | Q818       | K-1   |     |  |  |  |  |  |  |
| Q535           | F-3 | IC509      | F-2 | TPG2        | I-5 |        |       |            | Q245 | B-6       | Q819       | K-1   |     |  |  |  |  |  |  |
| Q536           | F-3 | IC512      | E-3 | TPG201      | B-3 |        |       |            | Q246 | B-5       | Integrated |       |     |  |  |  |  |  |  |
| Q538           | E-4 | IC513      | G-4 | TPG501      | E-2 |        |       |            | Q247 | B-5       | Circuits   |       |     |  |  |  |  |  |  |
| Q539           | E-4 | IC516      | E-3 | Adjustments |     |        |       |            |      | Q248      | B-5        |       |     |  |  |  |  |  |  |
| Q540           | E-4 | IC517      | C-3 |             |     |        |       |            |      | Q249      | A-6        |       |     |  |  |  |  |  |  |
| Q541           | E-4 | IC518      | C-3 |             |     |        |       |            |      | Q250      | A-4        | IC3   | J-4 |  |  |  |  |  |  |
| Q544           | E-4 | IC519      | F-6 |             |     |        |       |            |      | Q251      | B-4        | IC5   | J-4 |  |  |  |  |  |  |
| Q546           | D-2 | IC520      | G-6 |             |     |        |       |            |      | Q253      | B-5        | IC6   | I-5 |  |  |  |  |  |  |
| Q550           | E-4 | IC521      | E-3 |             |     |        |       |            |      | Q254      | B-5        | IC9   | K-5 |  |  |  |  |  |  |
| Q803           | K-1 | IC522      | E-2 |             |     |        |       |            |      | Q256      | G-1        | IC11  | L-5 |  |  |  |  |  |  |
| Q807           | J-1 | IC823      | E-5 |             |     |        |       |            |      | Q257      | G-1        | IC12  | K-5 |  |  |  |  |  |  |
| Q812           | H-1 | IC800      | J-1 |             |     |        |       |            |      | Q258      | E-5        | IC206 | A-2 |  |  |  |  |  |  |
|                |     |            |     | VR1         | K-4 |        |       |            |      |           |            |       |     |  |  |  |  |  |  |
|                |     |            |     | VR2         | K-4 |        |       |            |      |           |            |       |     |  |  |  |  |  |  |
|                |     |            |     | VR3         | M-5 |        |       |            |      |           |            |       |     |  |  |  |  |  |  |
|                |     |            |     | VR4         | K-5 |        |       |            |      |           |            |       |     |  |  |  |  |  |  |
|                |     |            |     | VR200       | B-1 |        |       |            |      |           |            |       |     |  |  |  |  |  |  |

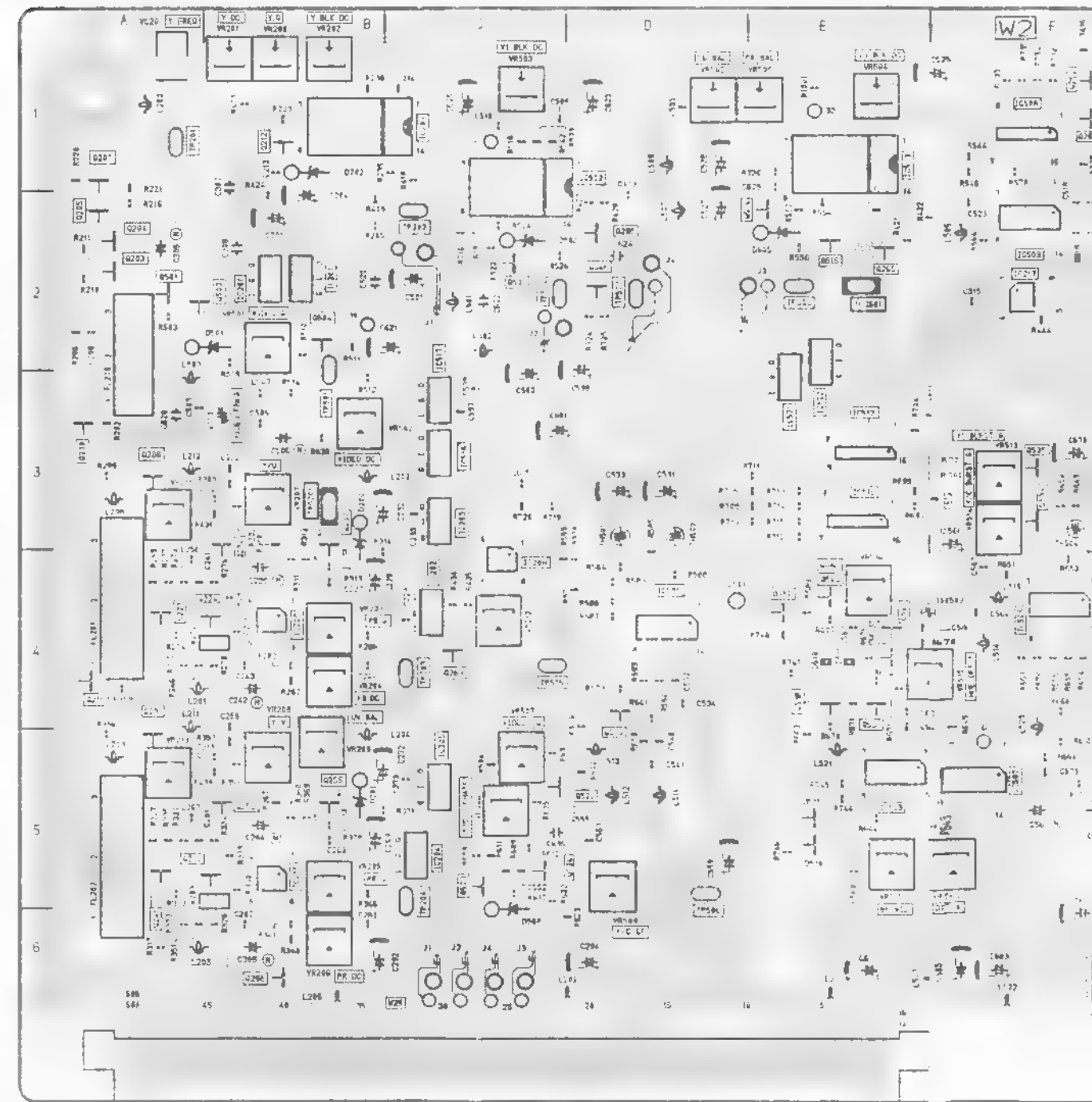
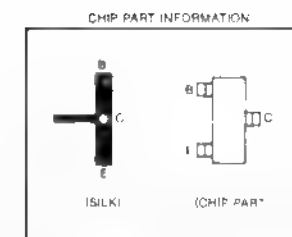
# W2(ENCODER) P.C.BOARD

| MODEL | AU-65H | AU-63H    | AU-62H              |
|-------|--------|-----------|---------------------|
| TYPE  | NTSC   | VEP88063P | VEP88063G VEP88063G |
|       | PAL    | VEP88063M | VEP88063N VEP88063Q |

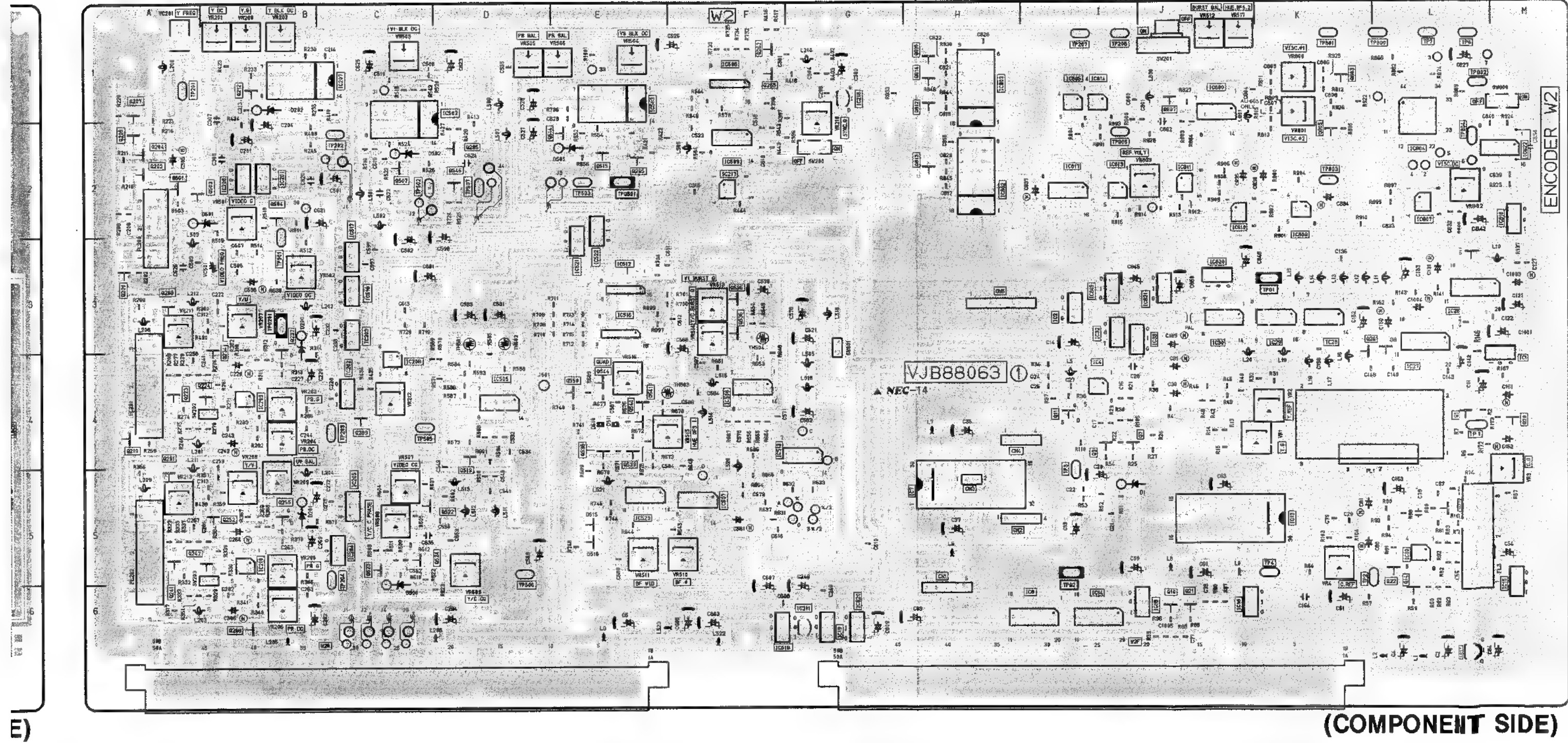
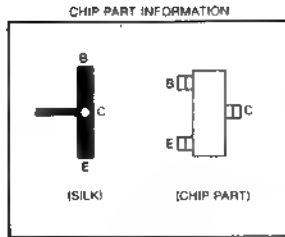




(FOIL SIDE)



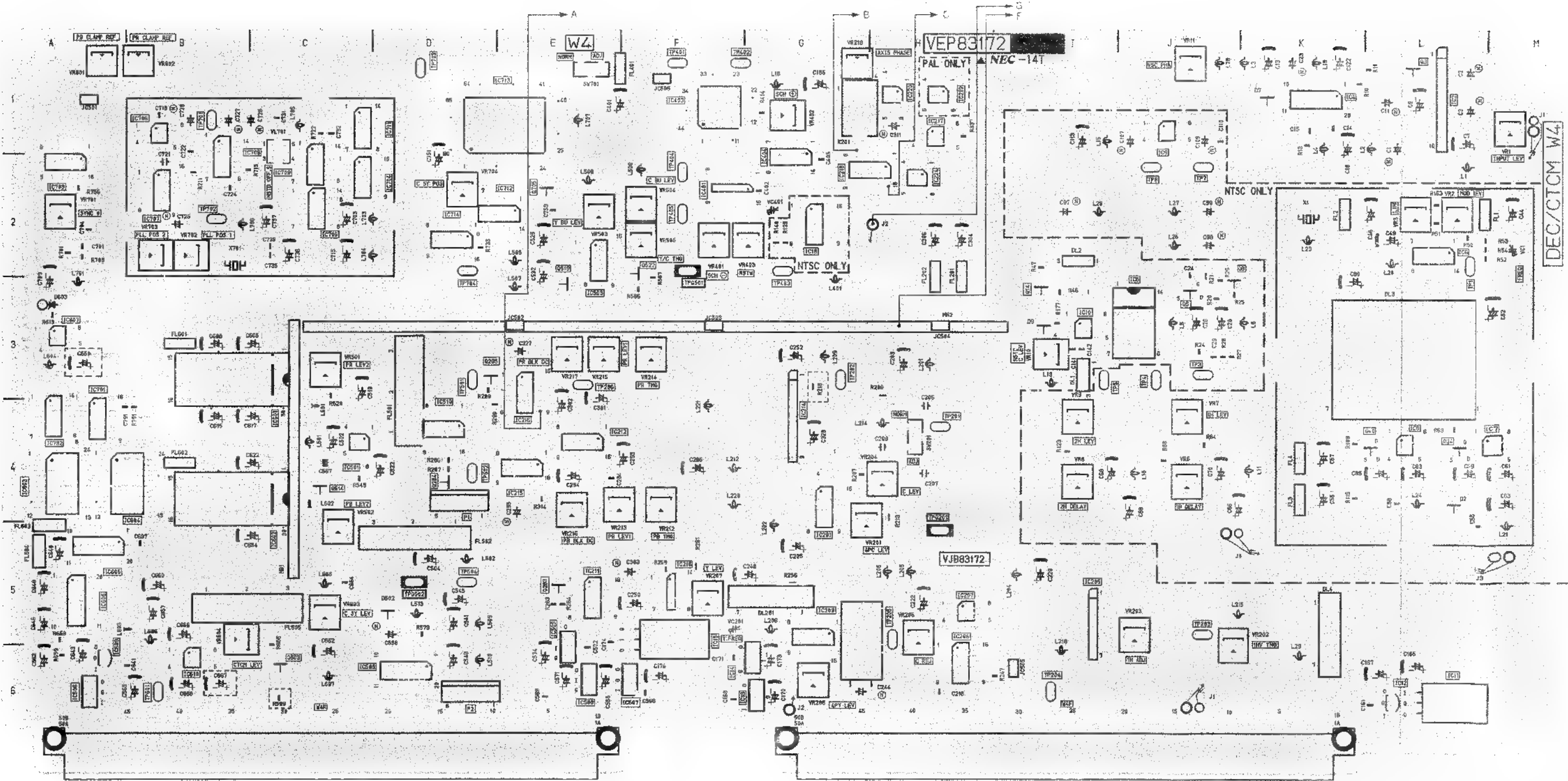




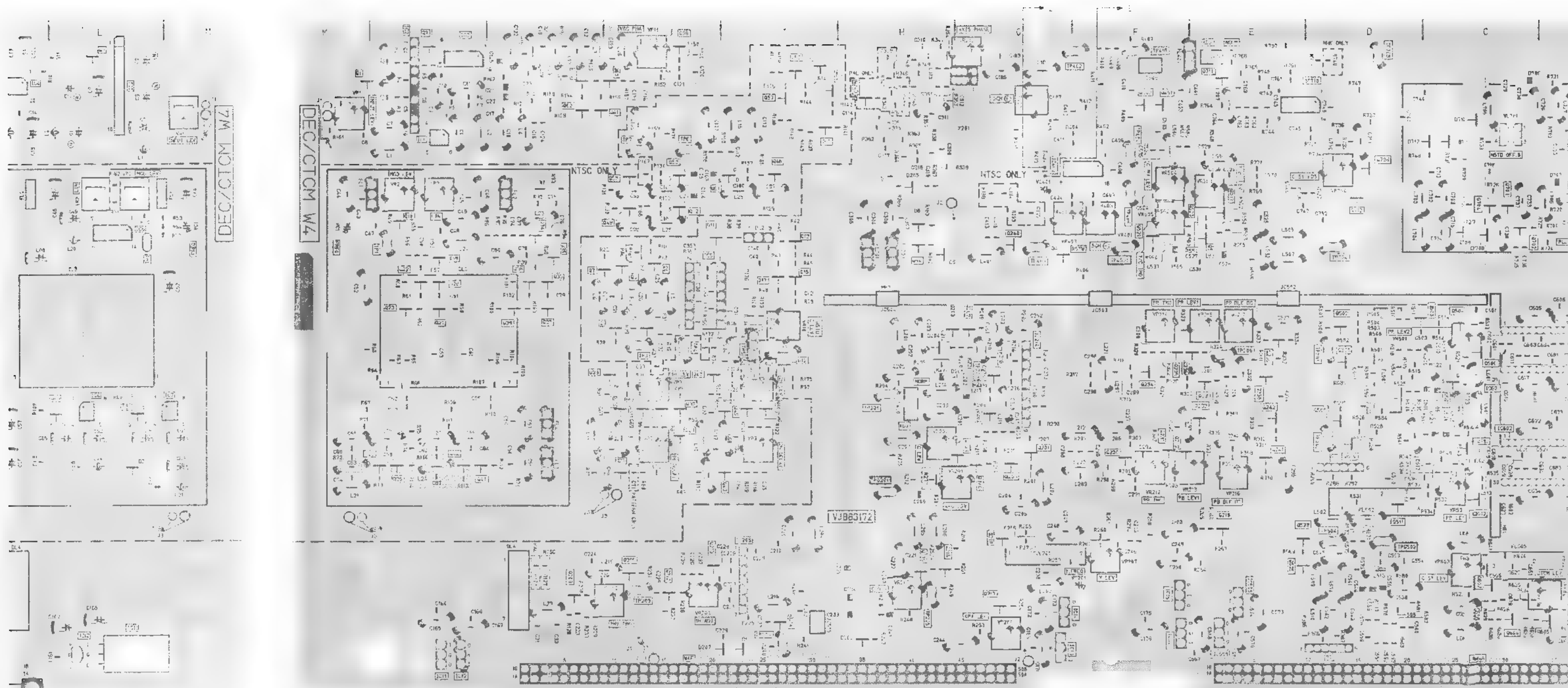
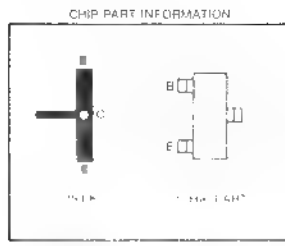


W4(DECODER) P.C.BOARD(FOR NTSC)

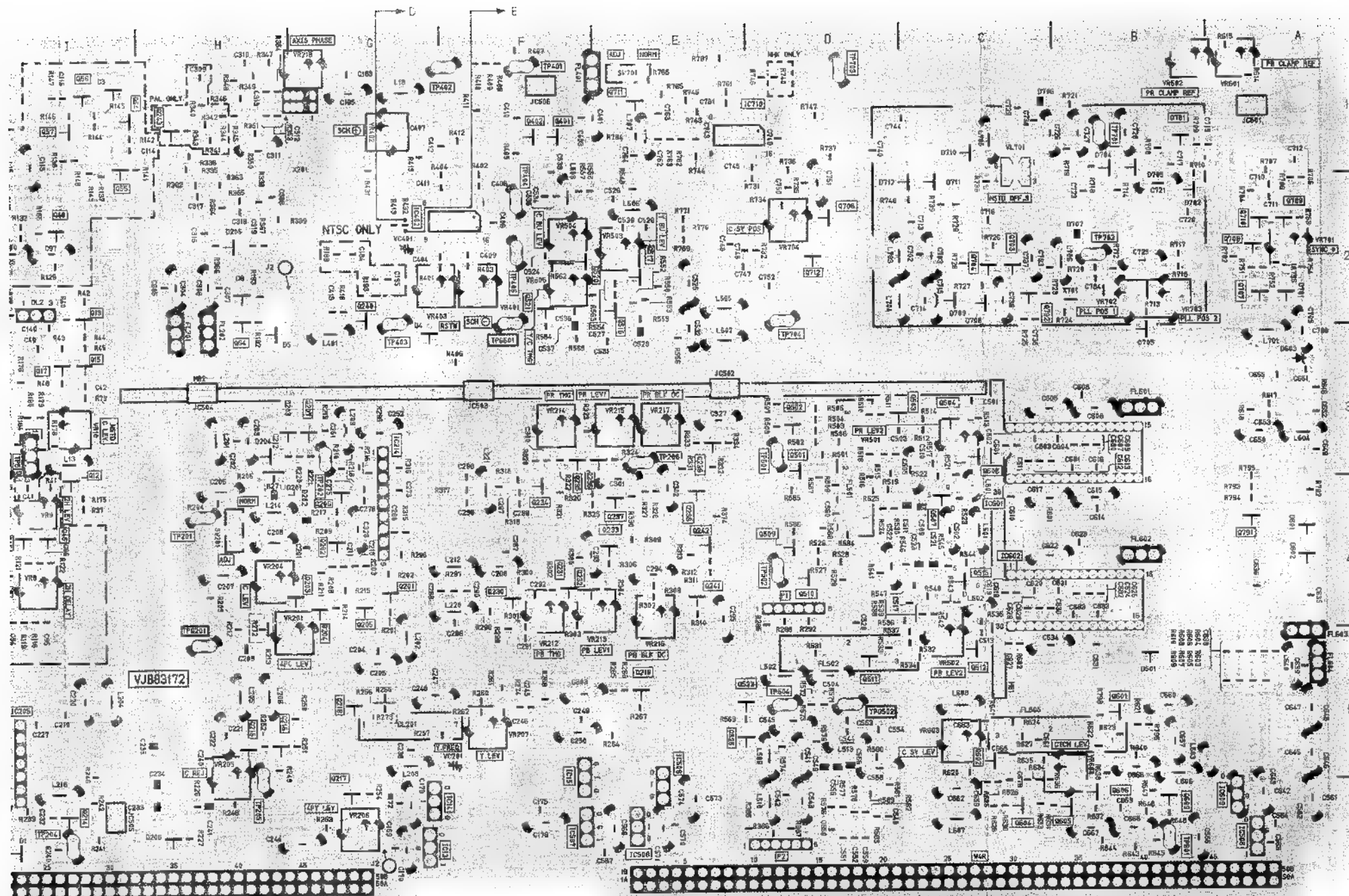
| MODEL | AU-65H    | AU-63H   | AU-62H   |
|-------|-----------|----------|----------|
| TYPE  | AU-65H    | AU-63H   | AU-62H   |
| NTSC  | VEP83172A | Not Used | Not Used |
| PAL   | SCM-33    | Not Used | Not Used |



(COMPONENT SIDE)

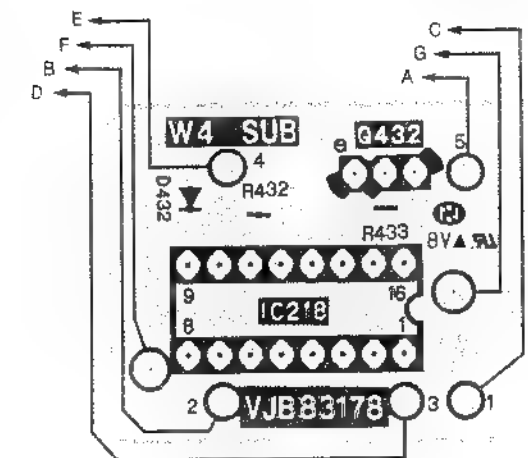


(COMPONENT SIDE)

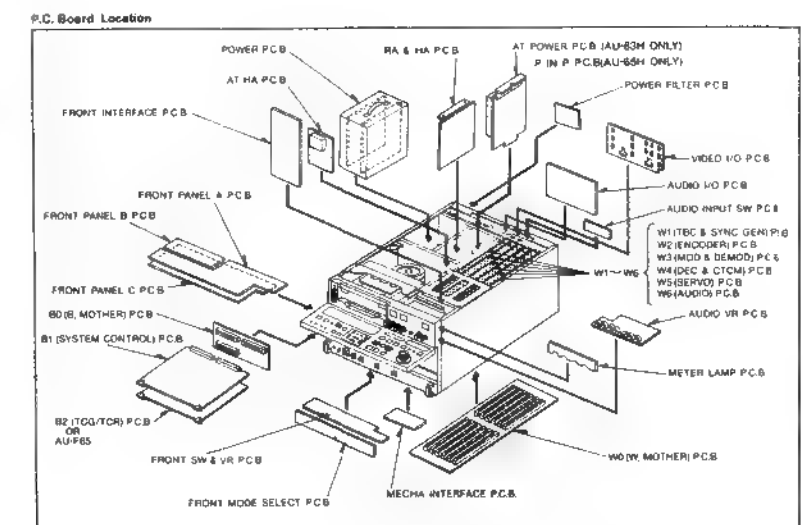


(FOIL SIDE)

## W4 (DECODER) SUB P.C.BOARD (VEP83178A)



(FOIL SIDE)



# DEC/CTCM P.C. BOARD

| COMPONENT SIDE        |     |            |     |            |     |           |     | FOIL SIDE  |     |      |     |            |     |
|-----------------------|-----|------------|-----|------------|-----|-----------|-----|------------|-----|------|-----|------------|-----|
| TRANSISTOR            |     | IC224      | H-2 | VR203      | J-5 | TP402     | F-1 | TRANSISTOR |     | Q54  | I-1 | Q506       | C-3 |
| Q3                    | L-1 | IC401      | F-2 | VR204      | H-4 | TP403     | G-2 | Q1         | M-1 | Q55  | I-1 | Q507       | C-4 |
| Q5                    | J-3 | IC403      | F-1 | VR205      | H-5 | TP404     | F-2 | Q2         | L-1 | Q56  | I-1 | Q509       | D-4 |
| Q8                    | J-3 | IC404      | G-2 | VR206      | G-6 | TP405     | F-2 | Q4         | J-3 | Q57  | I-1 | Q510       | D-4 |
| Q14                   | I-3 | IC501      | C-4 | VR207      | F-5 | TP501     | D-3 | Q6         | J-3 | Q58  | J-1 | Q511       | D-5 |
| Q24                   | L-4 | IC503      | E-2 | VR212      | F-4 | TP502     | D-4 | Q7         | J-3 | Q59  | K-1 | Q512       | C-5 |
| Q40                   | L-4 | IC505      | D-6 | VR213      | E-4 | TP504     | D-5 | Q8         | J-3 | Q60  | J-1 | Q515       | C-4 |
| Q283                  | E-5 | IC506      | A-6 | VR214      | F-3 | TP601     | B-6 | Q10        | J-3 | Q61  | K-1 | Q517       | E-2 |
| Q284                  | D-4 | IC507      | F-6 | VR215      | E-3 | TP701     | B-1 | Q11        | J-2 | Q62  | K-1 | Q518       | E-2 |
| Q285                  | D-3 | IC508      | E-6 | VR216      | E-4 | TP702     | B-2 | Q12        | I-3 | Q64  | H-2 | Q520       | F-2 |
| Q514                  | C-4 | IC509      | E-5 | VR217      | E-3 | TP703     | D-1 | Q13        | I-2 | Q201 | G-4 | Q521       | F-2 |
| Q519                  | E-3 | IC510      | D-4 | VR218      | G-1 | TP704     | D-2 | Q15        | I-3 | Q202 | G-4 | Q523       | E-5 |
| Q522                  | F-2 | IC601      | B-3 | VR401      | F-2 |           |     | Q17        | I-3 | Q203 | G-4 | Q525       | E-5 |
| Q603                  | C-6 | IC602      | B-4 | VR402      | G-1 | TPG201    | H-5 | Q18        | L-2 | Q204 | G-4 | Q601       | B-5 |
| Q705                  | E-2 | IC603      | A-4 | VR403      | G-2 | TPG501    | F-2 | Q19        | L-3 | Q205 | G-4 | Q602       | C-5 |
|                       |     | IC604      | B-4 | VR501      | C-3 | TPG502    | D-5 | Q20        | L-3 | Q206 | G-4 | Q604       | C-6 |
| INTEGRATED<br>CIRCUIT |     | IC605      | A-5 | VR502      | C-4 | CONNECTOR |     | Q21        | L-3 | Q207 | G-3 | Q605       | B-6 |
|                       |     | IC606      | A-5 | VR503      | E-2 |           |     | Q22        | L-3 | Q209 | K-5 | Q606       | B-6 |
| IC2                   | L-2 | IC607      | A-3 | VR504      | F-2 | P1        | D-4 | Q23        | L-3 | Q210 | J-5 | Q609       | B-6 |
| IC4                   | K-1 | IC609      | A-6 | VR505      | F-2 | P2        | D-6 | Q25        | L-4 | Q212 | J-5 | Q701       | B-1 |
| IC5                   | J-3 | IC610      | B-6 | VR601      | A-1 |           |     | Q26        | L-4 | Q213 | J-5 | Q702       | C-2 |
| IC6                   | L-2 | IC703      | A-2 | VR602      | B-1 |           |     | Q27        | J-4 | Q214 | I-6 | Q703       | C-2 |
| IC7                   | M-4 | IC704      | C-2 | VR603      | C-5 |           |     | Q28        | J-4 | Q215 | H-5 | Q704       | C-2 |
| IC8                   | L-4 | IC705      | C-2 | VR604      | B-5 |           |     | Q29        | J-4 | Q216 | H-5 | Q706       | D-2 |
| IC9                   | J-1 | IC706      | B-1 | VR701      | A-2 |           |     | Q30        | J-4 | Q217 | G-6 | Q707       | A-2 |
| IC10                  | I-3 | IC707      | B-2 | VR702      | B-2 |           |     | Q31        | J-4 | Q218 | G-5 | Q708       | A-2 |
| IC11                  | L-6 | IC708      | B-2 | VR703      | B-2 |           |     | Q32        | J-4 | Q219 | E-5 | Q709       | A-2 |
| IC12                  | L-6 | IC709      | C-2 | VR704      | D-2 |           |     | Q33        | J-4 | Q230 | F-4 | Q710       | A-2 |
| IC13                  | G-6 | IC711      | C-1 |            |     |           |     | Q34        | K-2 | Q231 | F-4 | Q711       | E-1 |
| IC14                  | G-6 | IC712      | E-2 | VC1        | M-2 |           |     | Q35        | K-3 | Q232 | F-4 | Q712       | D-2 |
| IC15                  | F-5 | IC713      | E-1 | VR201      | F-5 |           |     | Q36        | K-3 | Q233 | E-4 | Q781       | A-4 |
| IC18                  | G-2 | IC714      | D-2 | VR401      | G-2 |           |     | Q37        | K-3 | Q234 | F-4 |            |     |
| IC201                 | G-4 | IC791      | A-4 |            |     |           |     | Q38        | K-3 | Q235 | F-3 | INTEGRATED |     |
| IC205                 | I-5 | IC792      | A-4 | TEST POINT |     |           |     | Q39        | K-3 | Q236 | E-3 | CIRCUIT    |     |
| IC206                 | H-6 |            |     | TP1        | L-1 |           |     | Q41        | L-4 | Q237 | E-4 | IC1        | L-1 |
| IC207                 | H-5 | ADJUSTMENT |     | TP3        | J-3 |           |     | Q42        | L-4 | Q238 | E-4 | IC3        | L-1 |
| IC209                 | G-5 | VR1        | M-1 | TP4        | J-3 |           |     | Q43        | I-4 | Q239 | E-3 | IC402      | F-2 |
| IC210                 | F-5 | VR2        | L-2 | TP5        | I-3 |           |     | Q44        | I-4 | Q240 | G-2 | IC710      | D-1 |
| IC211                 | E-5 | VR3        | L-2 | TP6        | J-2 |           |     | Q45        | I-4 | Q241 | E-4 |            |     |
| IC212                 | E-4 | VR6        | J-4 | TP7        | J-2 |           |     | Q46        | I-4 | Q242 | E-4 |            |     |
| IC214                 | G-4 | VR7        | J-4 | TP201      | H-4 |           |     | Q47        | J-4 | Q243 | H-1 |            |     |
| IC215                 | E-4 | VR8        | I-4 | TP202      | G-3 |           |     | Q48        | I-2 | Q401 | F-1 |            |     |
| IC216                 | E-3 | VR9        | I-4 | TP203      | J-5 |           |     | Q49        | J-2 | Q402 | F-1 |            |     |
| IC217                 | H-1 | VR10       | I-3 | TP204      | I-6 |           |     | Q50        | J-2 | Q501 | D-3 |            |     |
| IC218                 | G-2 | VR11       | J-1 | TP205      | H-5 |           |     | Q51        | I-2 | Q502 | D-3 |            |     |
| IC219                 | H-1 | VR201      | G-5 | TP206      | E-3 |           |     | Q52        | J-2 | Q503 | D-3 |            |     |
| IC220                 | H-1 | VR202      | J-5 | TP401      | F-1 |           |     | Q53        | J-2 | Q504 | C-3 |            |     |

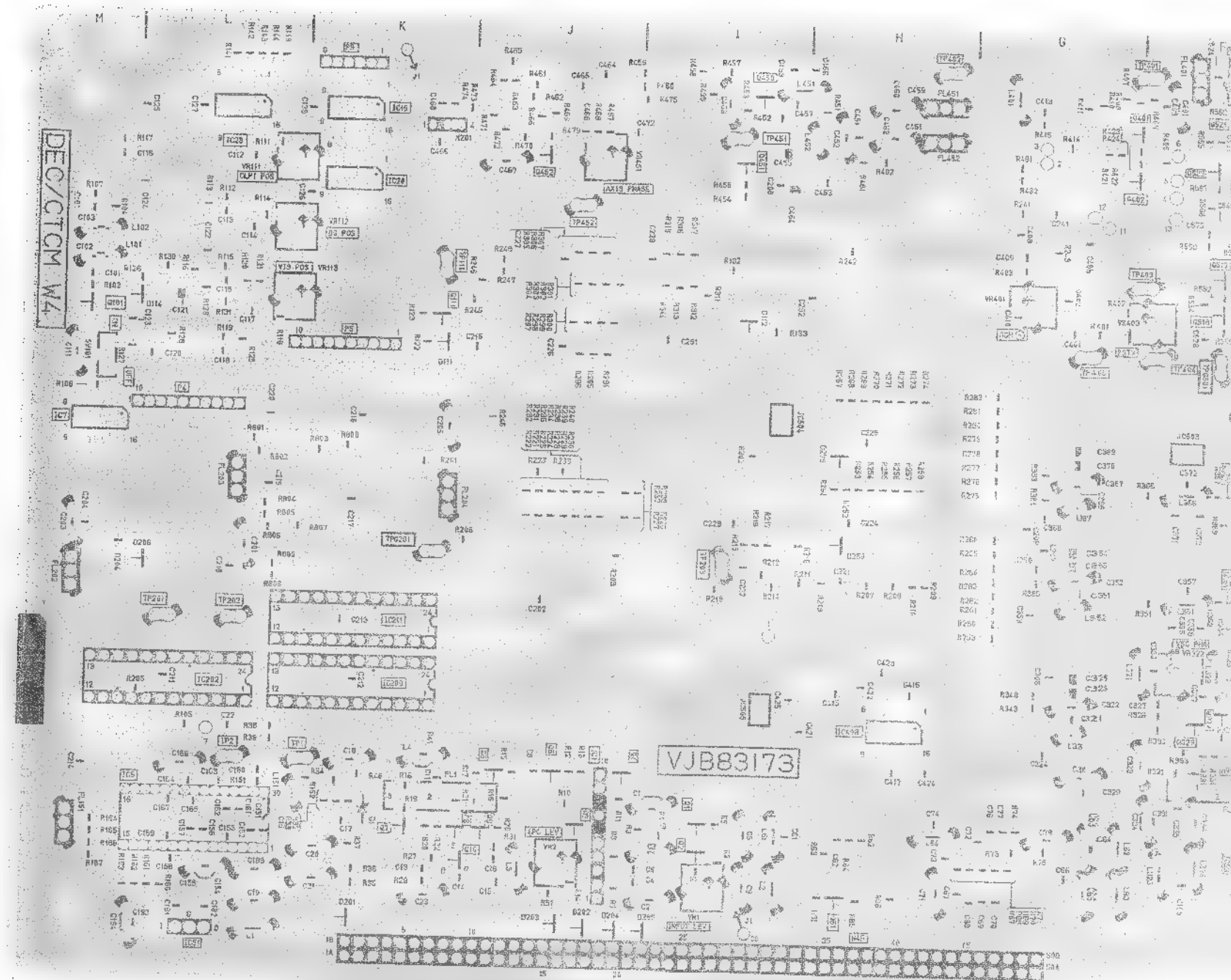
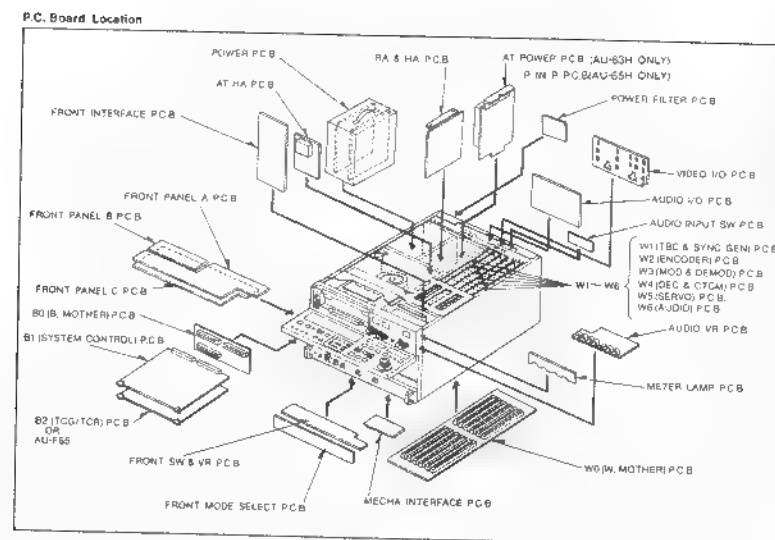
# DEC/CTCM P. C. BOARD

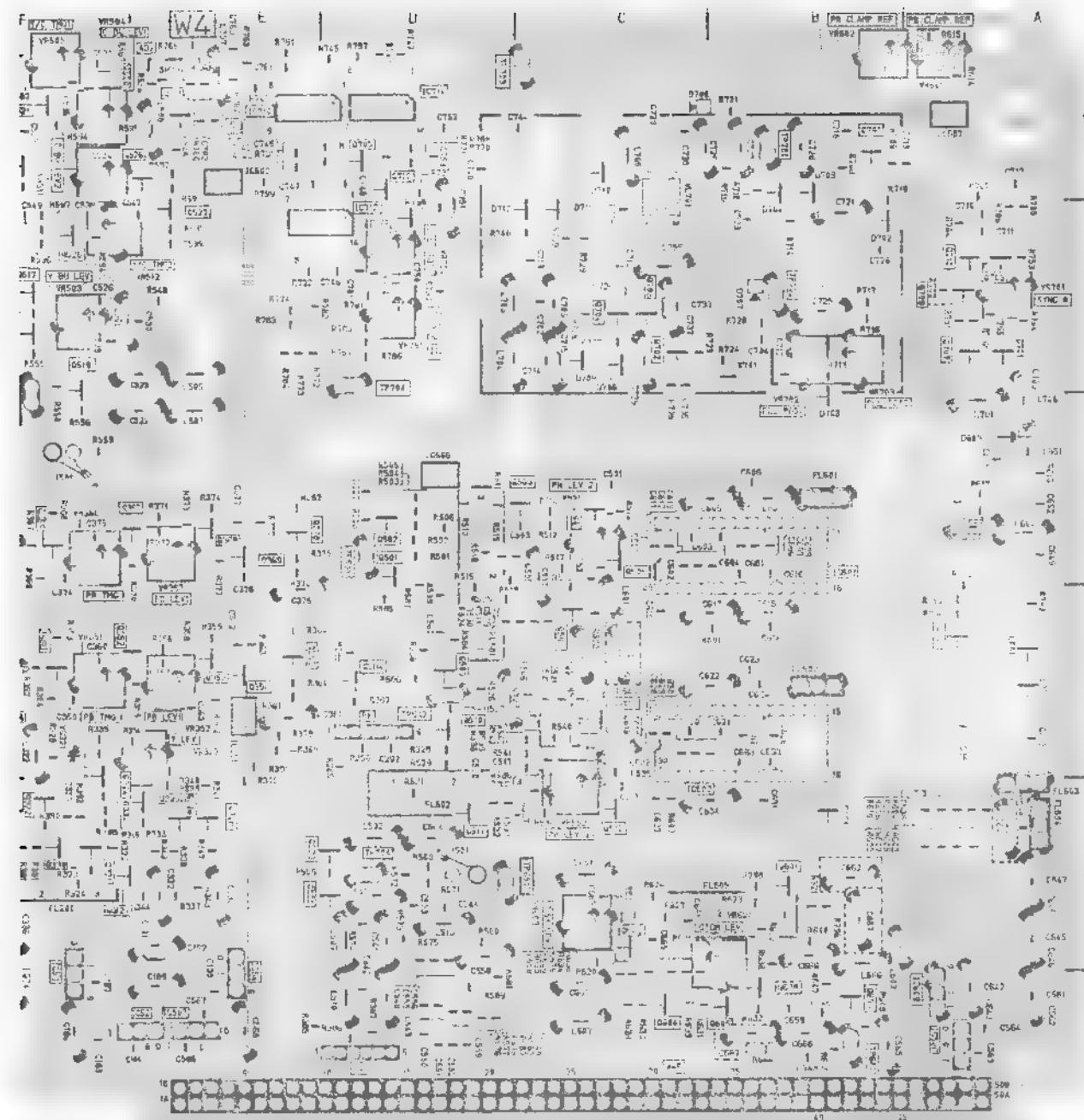
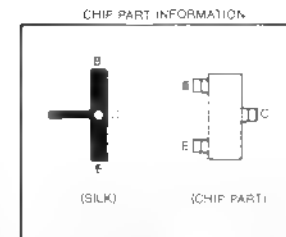
| COMPONENT SIDE        |     |       |     |            |     |           |            |            |     | FOIL SIDE             |     |  |  |
|-----------------------|-----|-------|-----|------------|-----|-----------|------------|------------|-----|-----------------------|-----|--|--|
| TRANSISTOR            |     | IC212 | H-4 | IC703      | A-2 | VR322     | F-4        | TRANSISTOR |     | Q511                  | D-5 |  |  |
| Q11                   | H-6 | IC213 | I-4 | IC704      | C-2 | VR323     | E-4        | Q1         | I-5 | Q512                  | C-5 |  |  |
| Q283                  | D-5 | IC214 | I-3 | IC705      | C-2 | VR351     | F-4        | Q2         | I-5 | Q515                  | C-4 |  |  |
| Q285                  | D-3 | IC215 | G-5 | IC706      | B-1 | VR352     | E-4        | Q3         | J-5 | Q517                  | F-2 |  |  |
| Q323                  | F-5 | IC216 | H-3 | IC707      | B-2 | VR366     | F-3        | Q4         | J-5 | Q518                  | F-2 |  |  |
| Q514                  | C-4 | IC217 | H-3 | IC708      | B-2 | VR367     | E-3        | Q5         | J-5 | Q519                  | F-2 |  |  |
| Q603                  | C-6 | IC219 | H-2 | IC709      | C-2 | VR401     | G-2        | Q6         | J-5 | Q520                  | F-1 |  |  |
| INTEGRATED<br>CIRCUIT |     | IC220 | G-4 | IC711      | C-1 | VR403     | F-2        | Q7         | K-5 | Q521                  | F-1 |  |  |
|                       |     | IC221 | J-2 | IC713      | E-1 | VR451     | J-1        | Q8         | K-5 | Q522                  | F-1 |  |  |
|                       |     | IC222 | J-2 | IC781      | D-2 | VR501     | C-3        | Q9         | J-5 | Q523                  | D-5 |  |  |
| IC1                   | J-6 | IC223 | J-2 | IC783      | D-2 | VR502     | C-5        | Q10        | J-5 | Q525                  | D-5 |  |  |
| IC2                   | J-5 | IC224 | J-2 | IC791      | A-4 | VR503     | F-2        | Q61        | H-6 | Q526                  | E-1 |  |  |
| IC3                   | J-6 | IC225 | G-3 | IC792      | A-4 | VR504     | F-1        | Q101       | M-2 | Q527                  | E-2 |  |  |
| IC4                   | K-5 | IC226 | I-2 | TEST POINT |     | VR505     | F-1        | Q111       | K-2 | Q528                  | F-2 |  |  |
| IC5                   | L-5 | IC227 | I-1 |            |     | VR511     | F-1        | Q284       | D-4 | Q601                  | B-5 |  |  |
| IC6                   | K-6 | IC228 | J-1 | TP1        | K-5 | VR512     | F-2        | Q321       | F-5 | Q602                  | C-5 |  |  |
| IC8                   | H-6 | IC229 | J-1 | TP2        | L-5 | VR601     | A-1        | Q322       | F-5 | Q604                  | C-6 |  |  |
| IC9                   | H-6 | IC230 | H-1 | TP111      | K-2 | VR602     | B-1        | Q324       | F-4 | Q605                  | B-6 |  |  |
| IC10                  | G-6 | IC233 | J-1 | TP201      | L-4 | VR603     | C-5        | Q325       | E-5 | Q606                  | B-6 |  |  |
| IC11                  | L-1 | IC234 | E-4 | TP202      | L-4 | VR604     | B-5        | Q326       | E-5 | Q609                  | B-6 |  |  |
| IC12                  | L-2 | IC235 | E-4 | TP203      | I-4 | VR701     | A-2        | Q327       | F-5 | Q701                  | B-1 |  |  |
| IC13                  | L-2 | IC236 | E-4 | TP401      | F-1 | VR702     | B-2        | Q328       | E-5 | Q702                  | C-2 |  |  |
| IC14                  | M-1 | IC237 | E-3 | TP402      | H-1 | VR703     | B-2        | Q329       | F-5 | Q703                  | C-2 |  |  |
| IC15                  | L-2 | IC238 | I-2 | TP403      | F-2 | VR704     | D-2        | Q330       | F-5 | Q704                  | C-2 |  |  |
| IC17                  | L-1 | IC401 | G-2 | TP404      | F-2 | VR781     | D-2        | Q351       | F-4 | Q705                  | D-1 |  |  |
| IC18                  | L-1 | IC402 | G-2 | TP405      | G-2 | VC321     | F-4        | Q352       | F-4 | Q706                  | D-2 |  |  |
| IC21                  | K-1 | IC403 | G-1 | TP451      | I-1 |           |            | Q353       | E-4 | Q707                  | A-2 |  |  |
| IC22                  | L-1 | IC405 | H-5 | TP452      | J-2 | CONNECTOR |            | Q354       | E-4 | Q708                  | A-2 |  |  |
| IC24                  | K-1 | IC406 | H-5 | TP501      | D-3 |           |            | Q355       | E-4 | Q709                  | A-2 |  |  |
| IC25                  | K-2 | IC407 | H-4 | TP502      | D-4 | P1        | D-4        | Q366       | F-3 | Q710                  | A-2 |  |  |
| IC26                  | I-5 | IC409 | H-4 | TP504      | D-5 | P2        | D-6        | Q367       | F-3 | Q711                  | E-1 |  |  |
| IC27                  | H-5 | IC501 | C-4 | TP601      | B-6 | P3        | K-1        | Q368       | E-3 | Q712                  | D-1 |  |  |
| IC51                  | L-6 | IC503 | F-2 | TP701      | B-1 | P4        | L-3        | Q369       | E-3 | Q791                  | A-4 |  |  |
| IC52                  | E-6 | IC504 | F-1 | TP702      | B-2 | P5        | K-2        | Q370       | E-3 | INTEGRATED<br>CIRCUIT |     |  |  |
| IC53                  | F-6 | IC505 | D-6 | TP703      | C-1 | Q401      | G-1        |            |     |                       |     |  |  |
| IC54                  | E-6 | IC506 | A-6 | TP704      | D-2 | Q402      | G-1        | IC7        |     | M-3                   |     |  |  |
| IC201                 | M-5 | IC507 | E-6 | TPG201     |     | K-4       |            |            |     |                       |     |  |  |
| IC202                 | L-4 | IC510 | D-4 |            |     |           | TPG501     |            | F-2 |                       |     |  |  |
| IC203                 | K-3 | IC601 | B-3 | TPG502     |     | D-5       |            |            |     |                       |     |  |  |
| IC204                 | K-3 | IC602 | B-4 |            |     |           | ADJUSTMENT |            |     |                       |     |  |  |
| IC205                 | L-3 | IC603 | A-4 | VR1        |     | I-6       |            |            |     |                       |     |  |  |
| IC206                 | K-4 | IC604 | B-4 |            |     |           | VR2        |            | J-6 |                       |     |  |  |
| IC207                 | K-3 | IC605 | A-5 | VR111      |     | L-1       |            |            |     |                       |     |  |  |
| IC208                 | K-3 | IC606 | A-5 |            |     |           | VR112      |            | L-2 |                       |     |  |  |
| IC209                 | K-5 | IC607 | A-3 | VR113      |     | L-2       |            |            |     |                       |     |  |  |
| IC210                 | J-4 | IC609 | A-6 |            |     |           |            |            |     |                       |     |  |  |
| IC211                 | K-4 | IC610 | B-6 |            |     |           |            |            |     |                       |     |  |  |



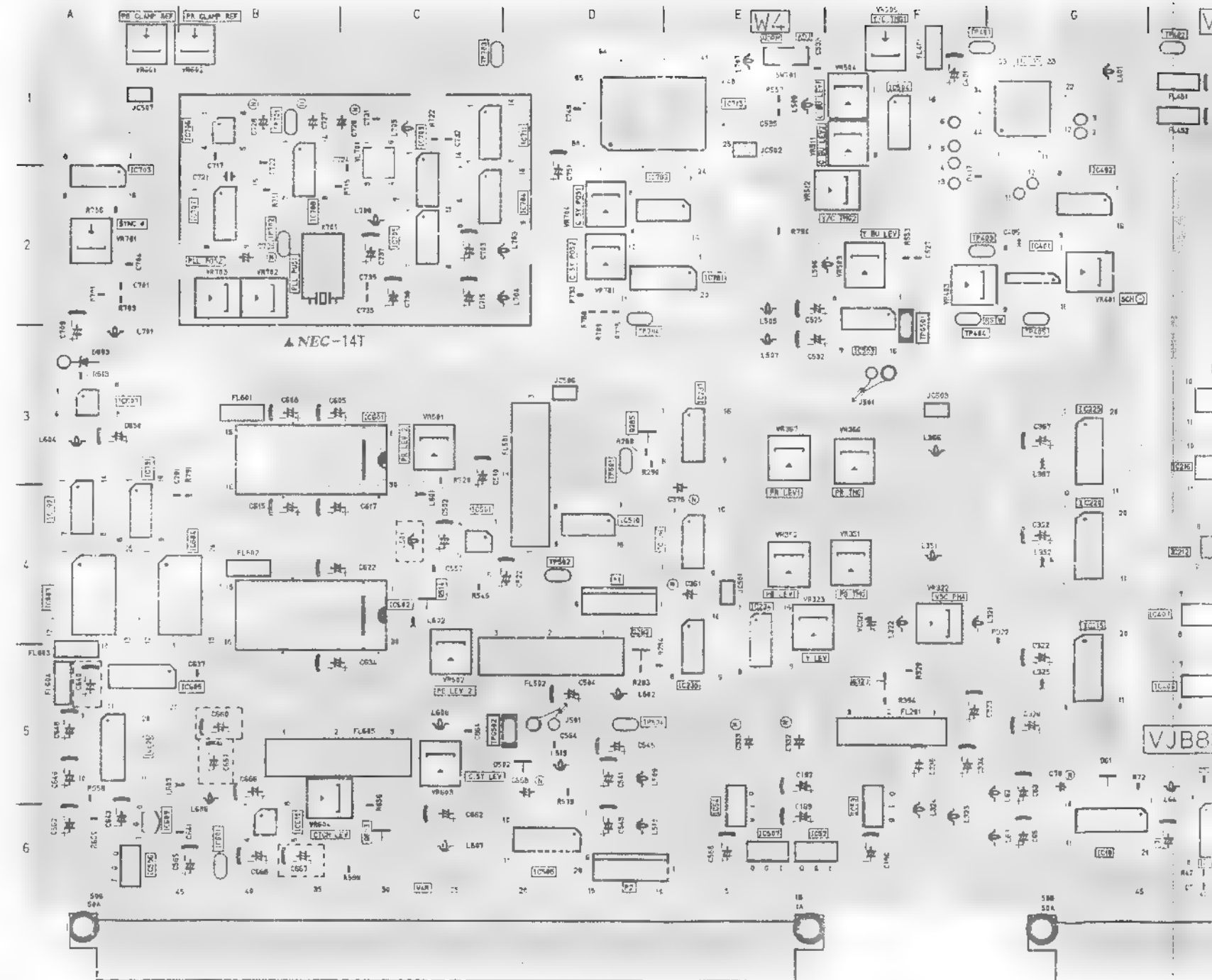
# W4(DECODER) P.C.BOARD(FOR PAL)

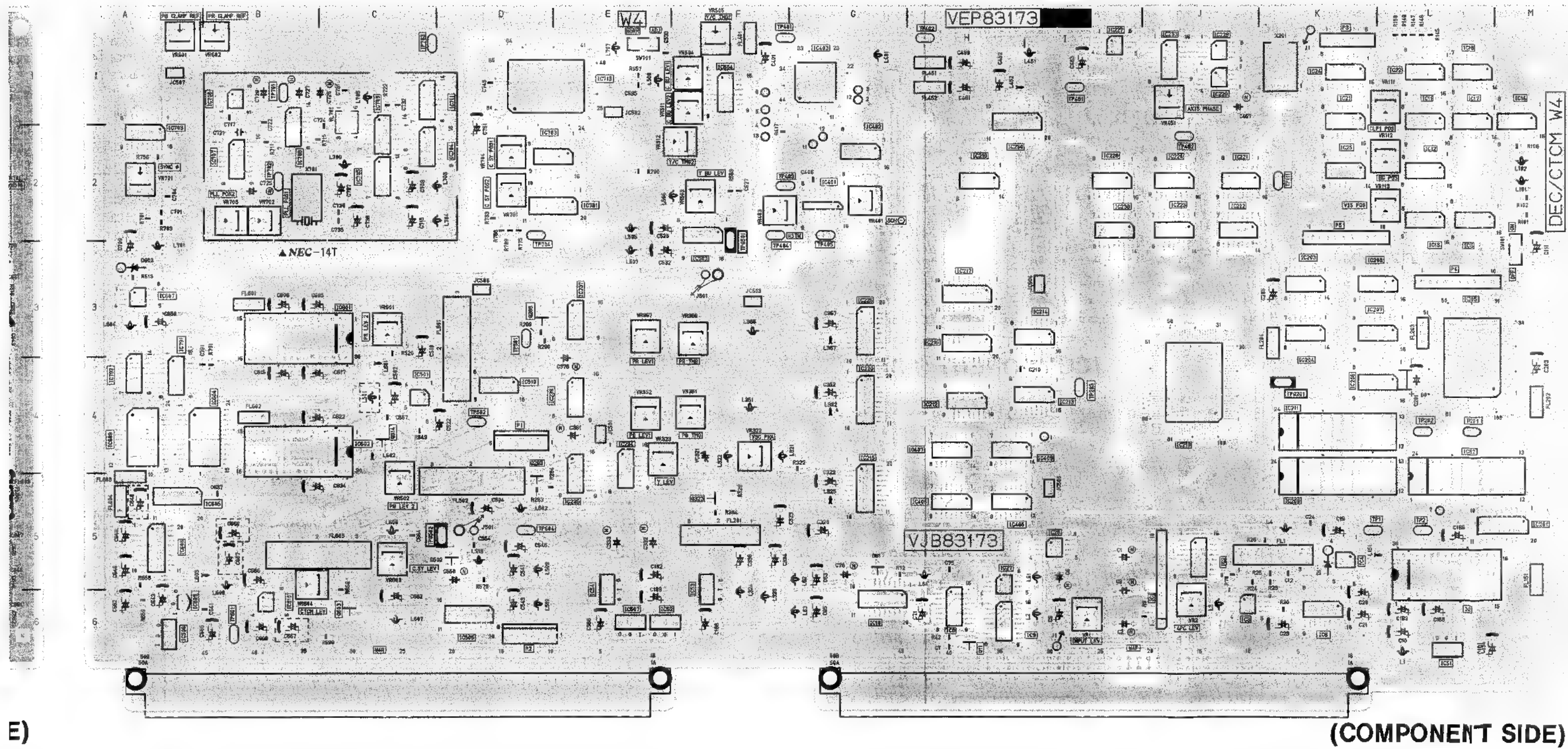
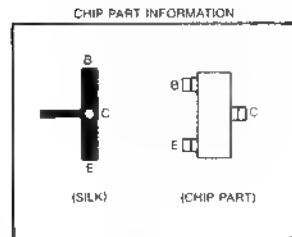
| MODEL | AU-65H | AU-63H    | AU-62H   |
|-------|--------|-----------|----------|
| TYPE  | NTSC   | SCM-30    | Not Used |
|       | PAL    | VEP83173A | Not Used |





(FOIL SIDE)





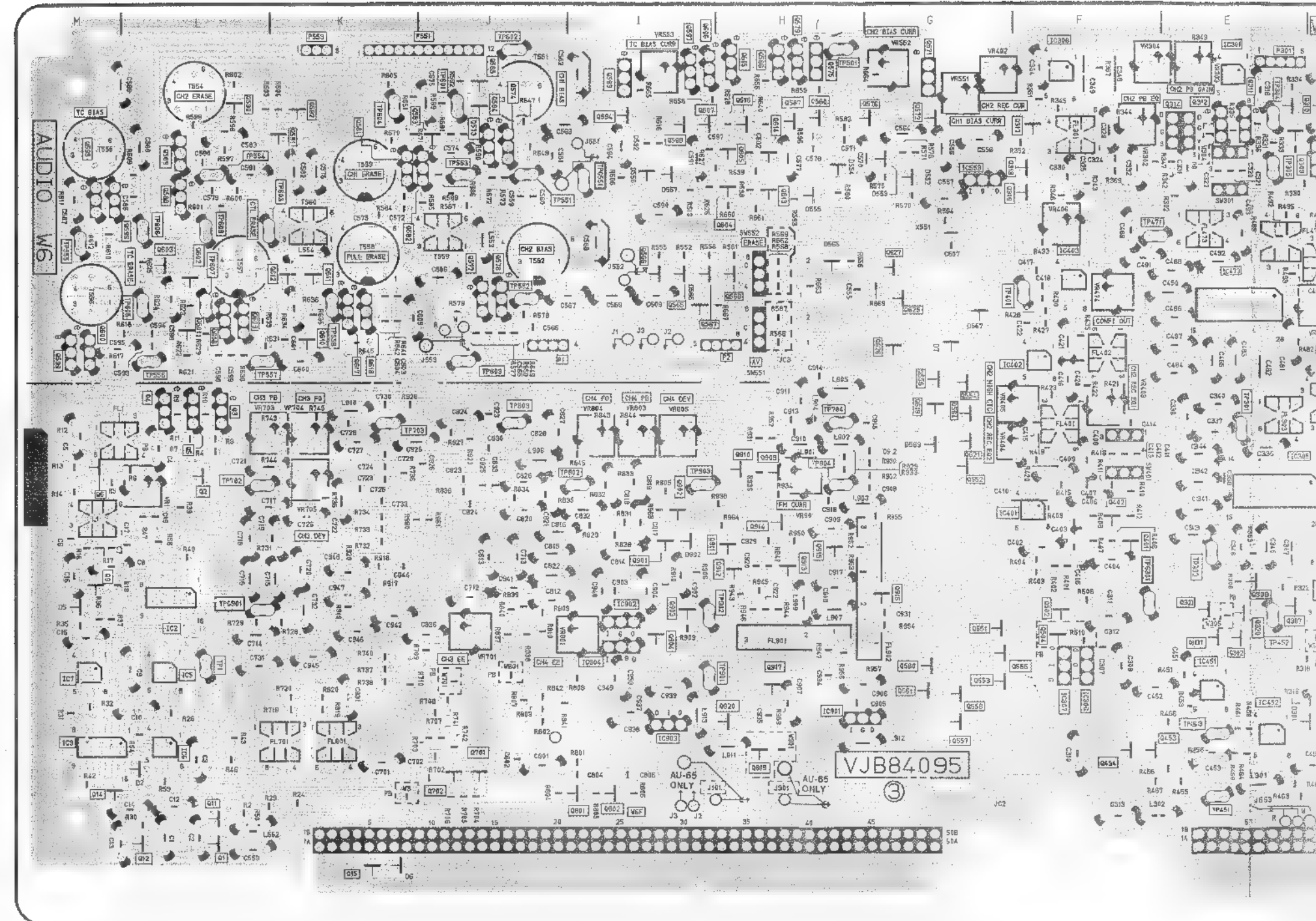
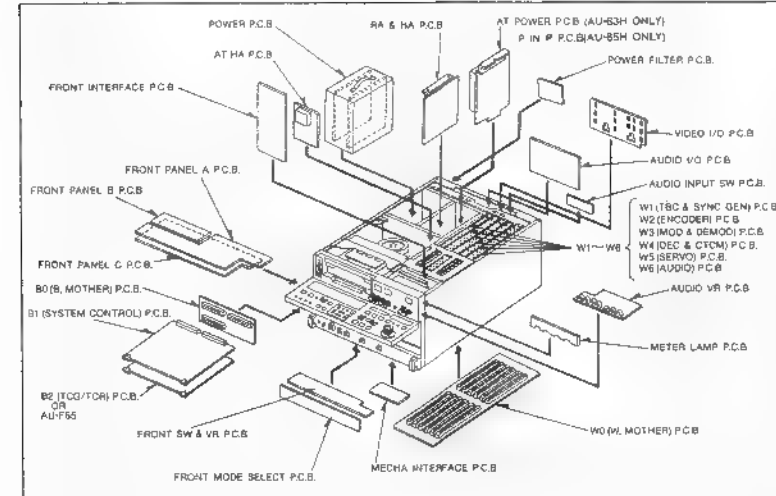
E)



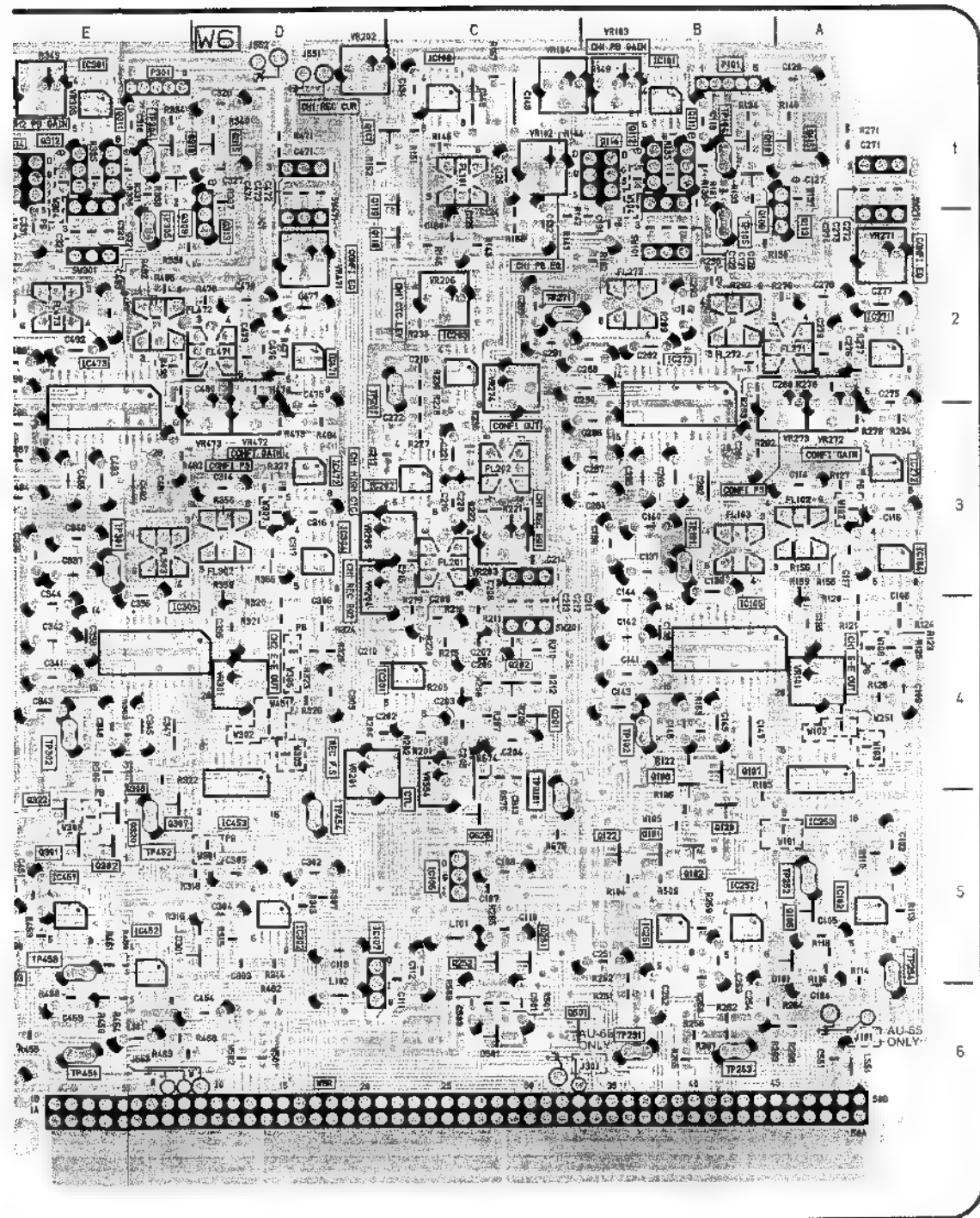
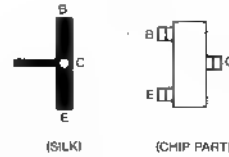
# W6(AUDIO) P.C.BOARD

| MODEL TYPE | AU-65H    | AU-63H    | AU-62H    |
|------------|-----------|-----------|-----------|
| NTSC       | VEP84095J | VEP84095C | VEP84095C |
| PAL        | VEP84095K | VEP84095E | VEP84095E |

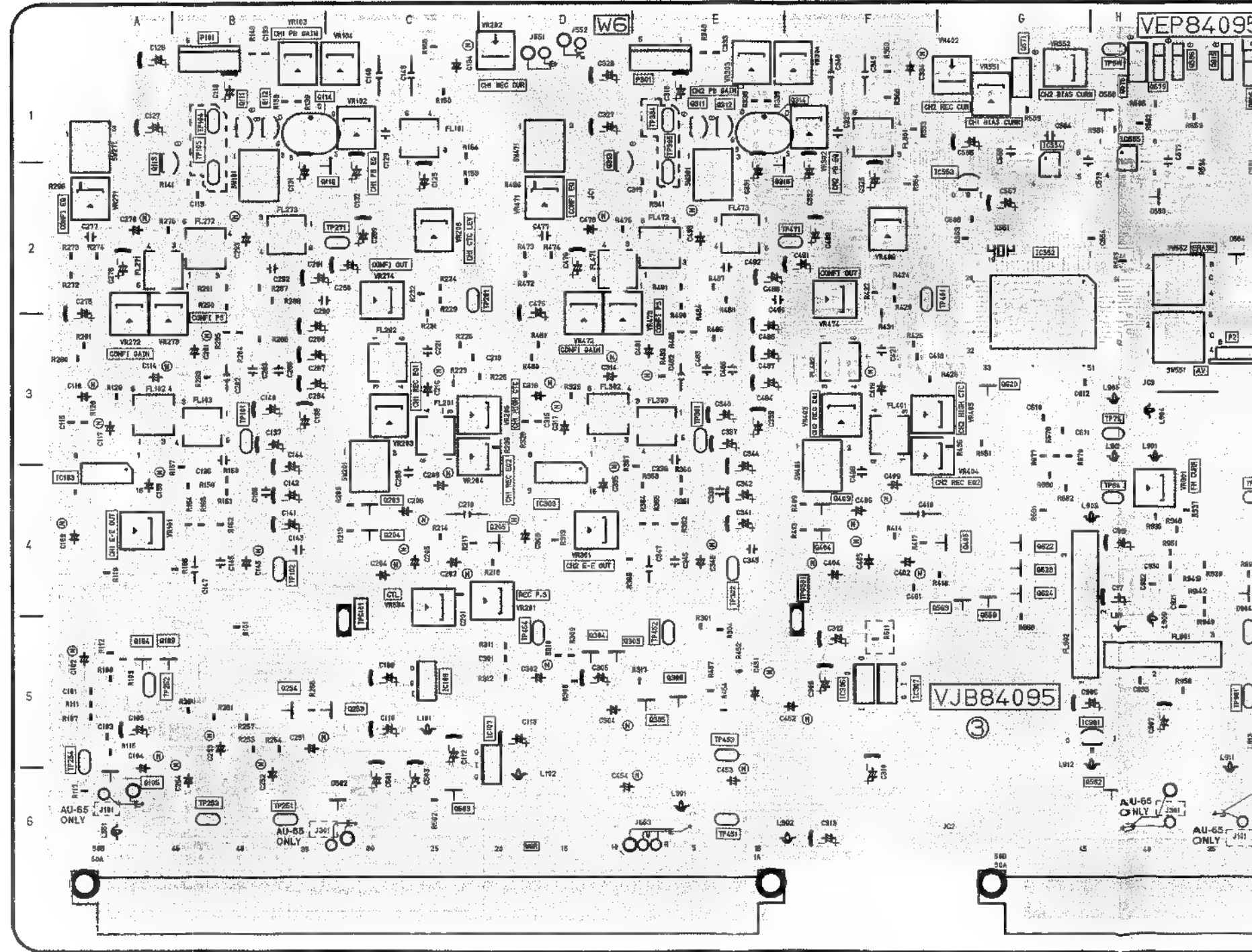
P.C. Board Location



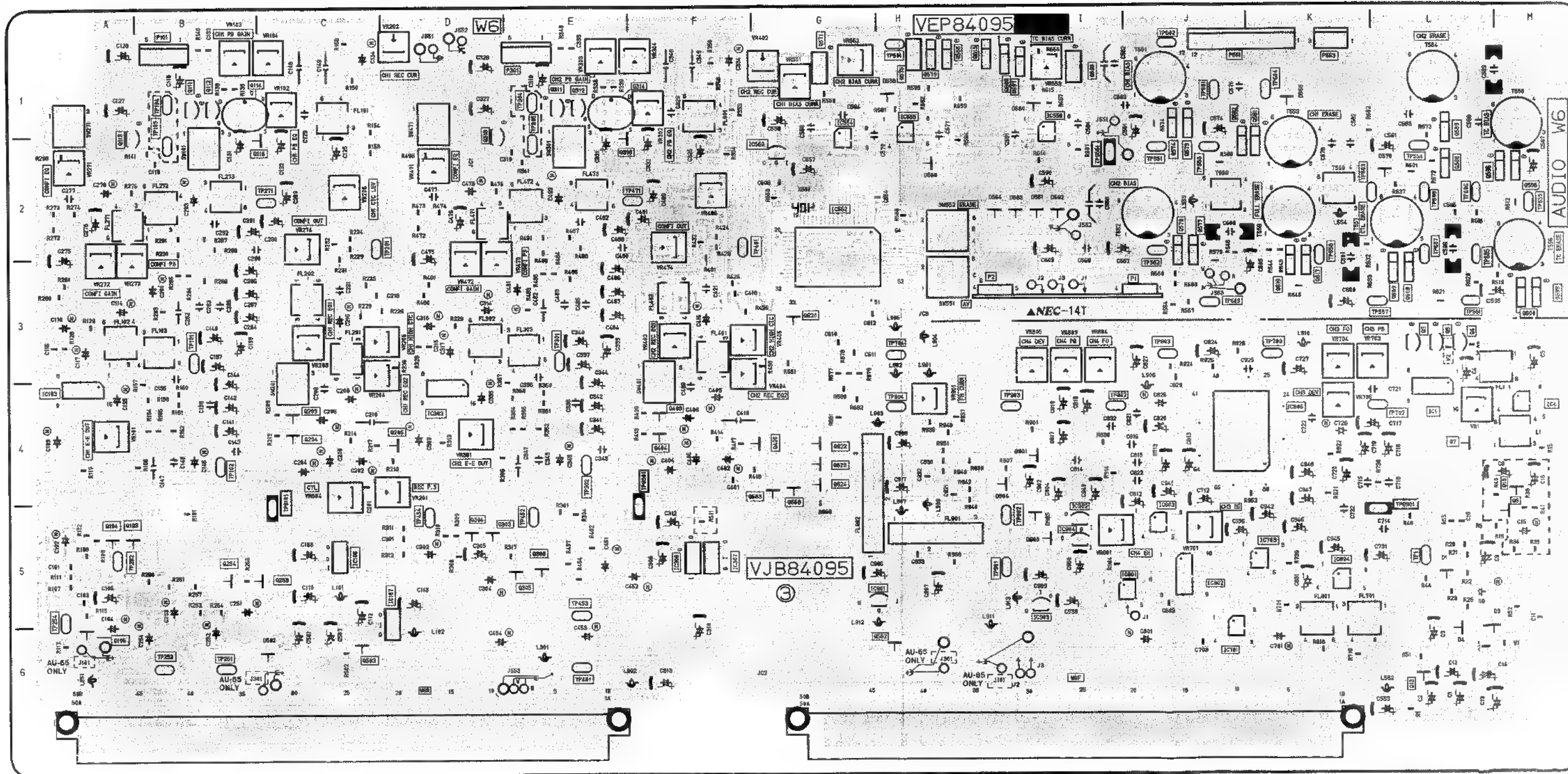
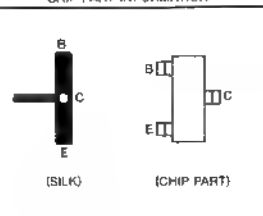
CHIP PART INFORMATION



(FOIL SIDE)



### CHIP PART INFORMATION



**(COMPONENT SIDE)**

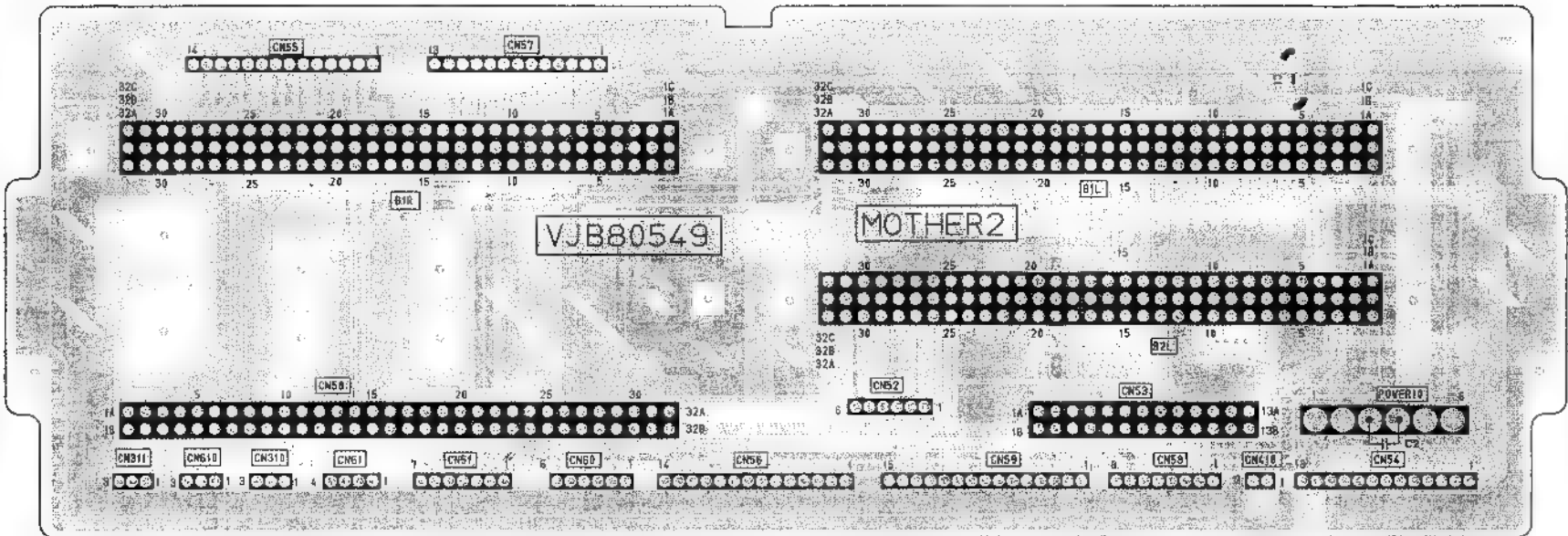
**REVERSE SIDE**

B0 MOTHER2 P.C.BOARD  
B1 SYSTEM CONTROL P.C.BOARD

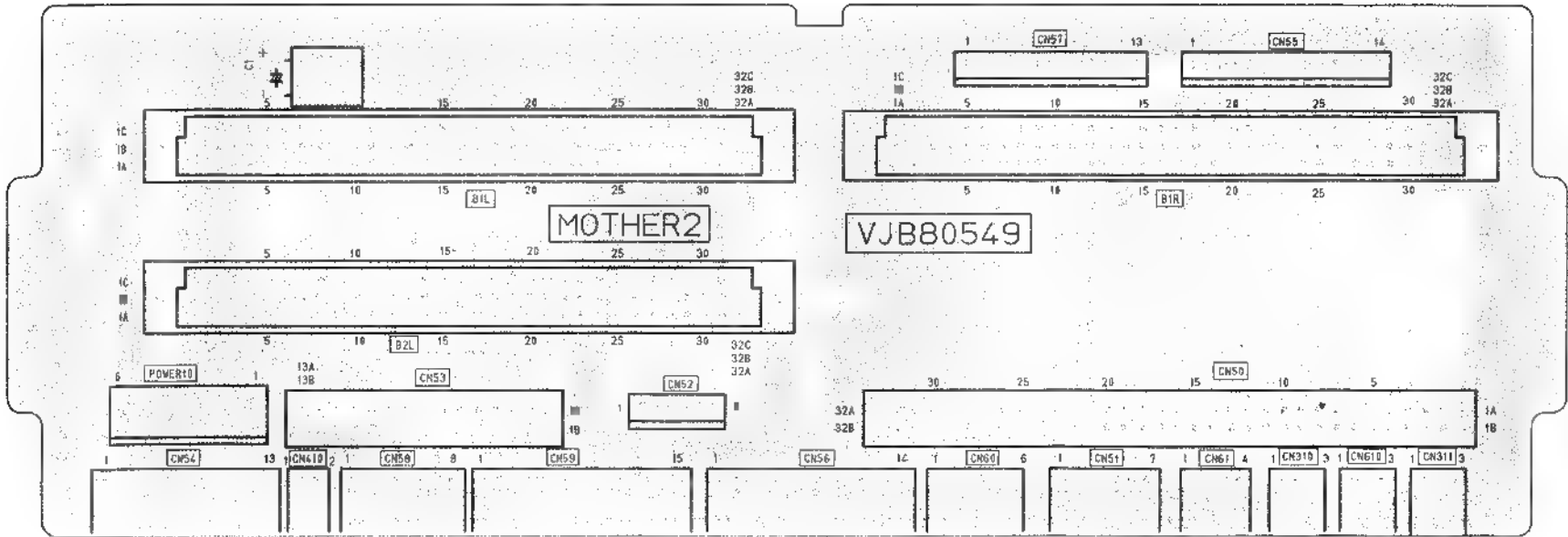


B0(MOTHER 2)P.C.BOARD

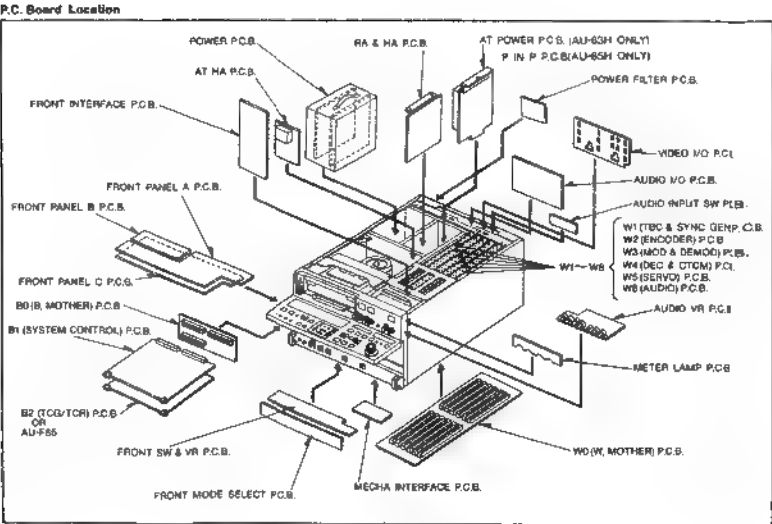
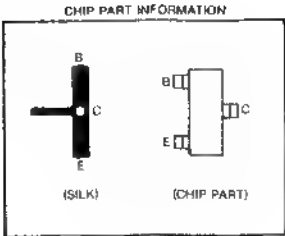
| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  |           |           |           |
| NTSC  | VEP80549H | VEP80549K | VEP80549J |
| PAL   | VEP80549H | VEP80549K | VEP80549J |



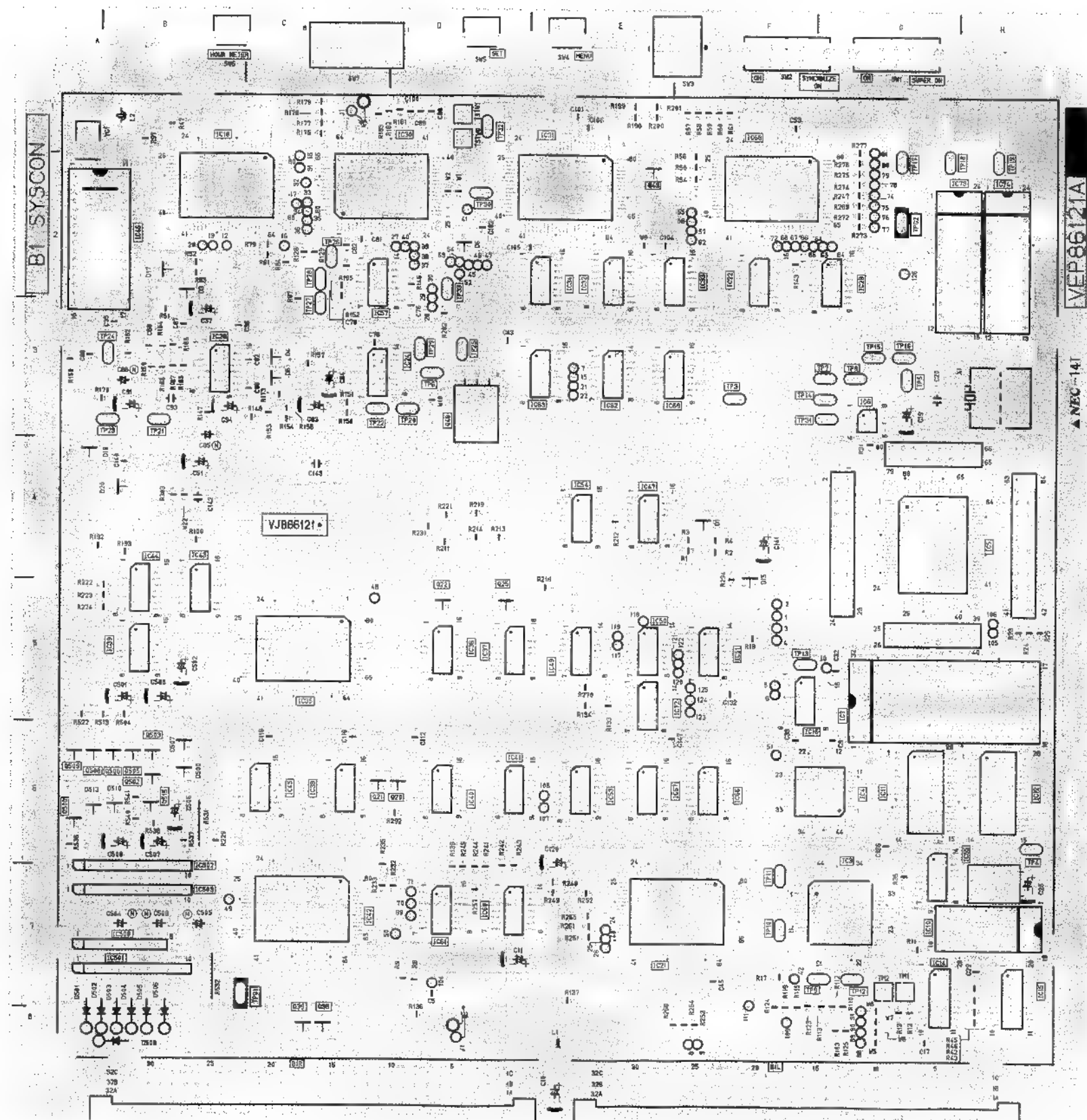
(FOIL SIDE)



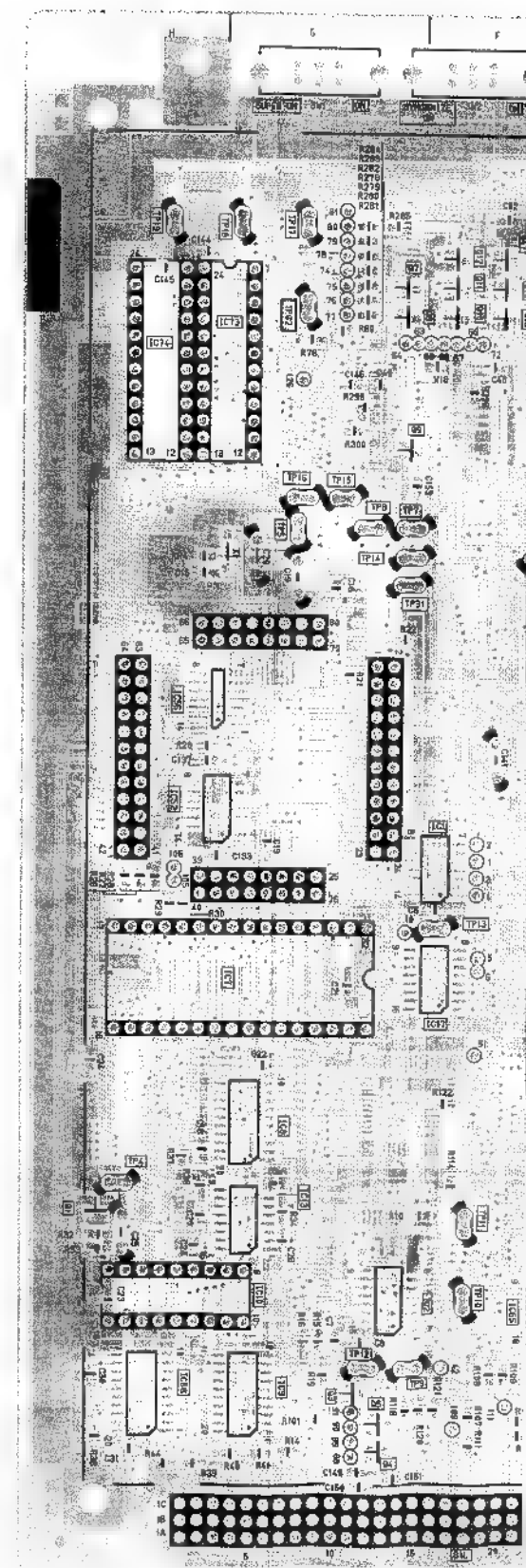
(COMPONENT SIDE)



| MODEL<br>TYPE | AU-65H    | AU-63H    | AU-62H    |
|---------------|-----------|-----------|-----------|
| NTSC          | VEP86121A | VEP86121C | VEP86121B |
| PAL           | VEP86121D | VEP86121F | VEP86121E |

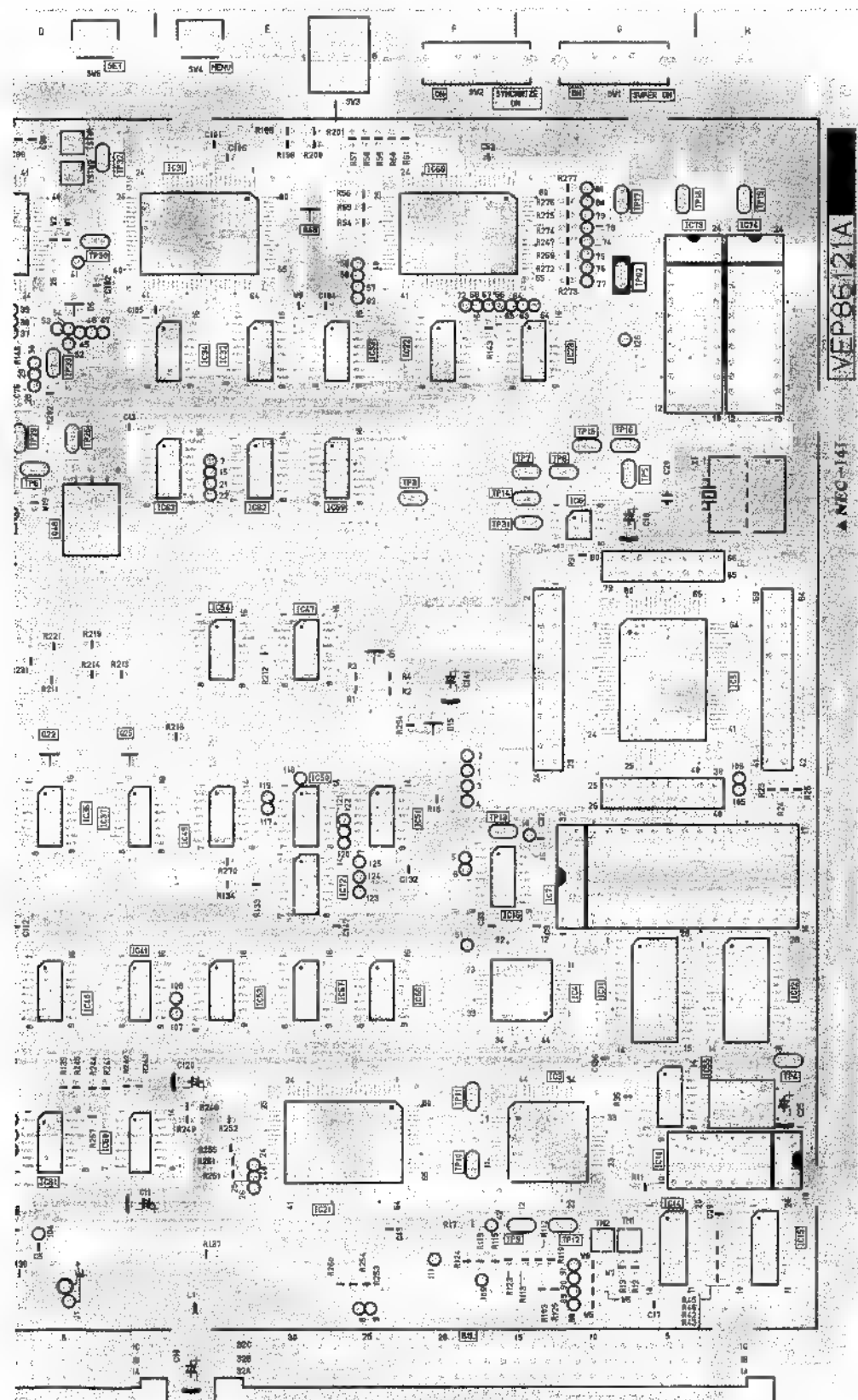


**(COMPONENT SIDE)**

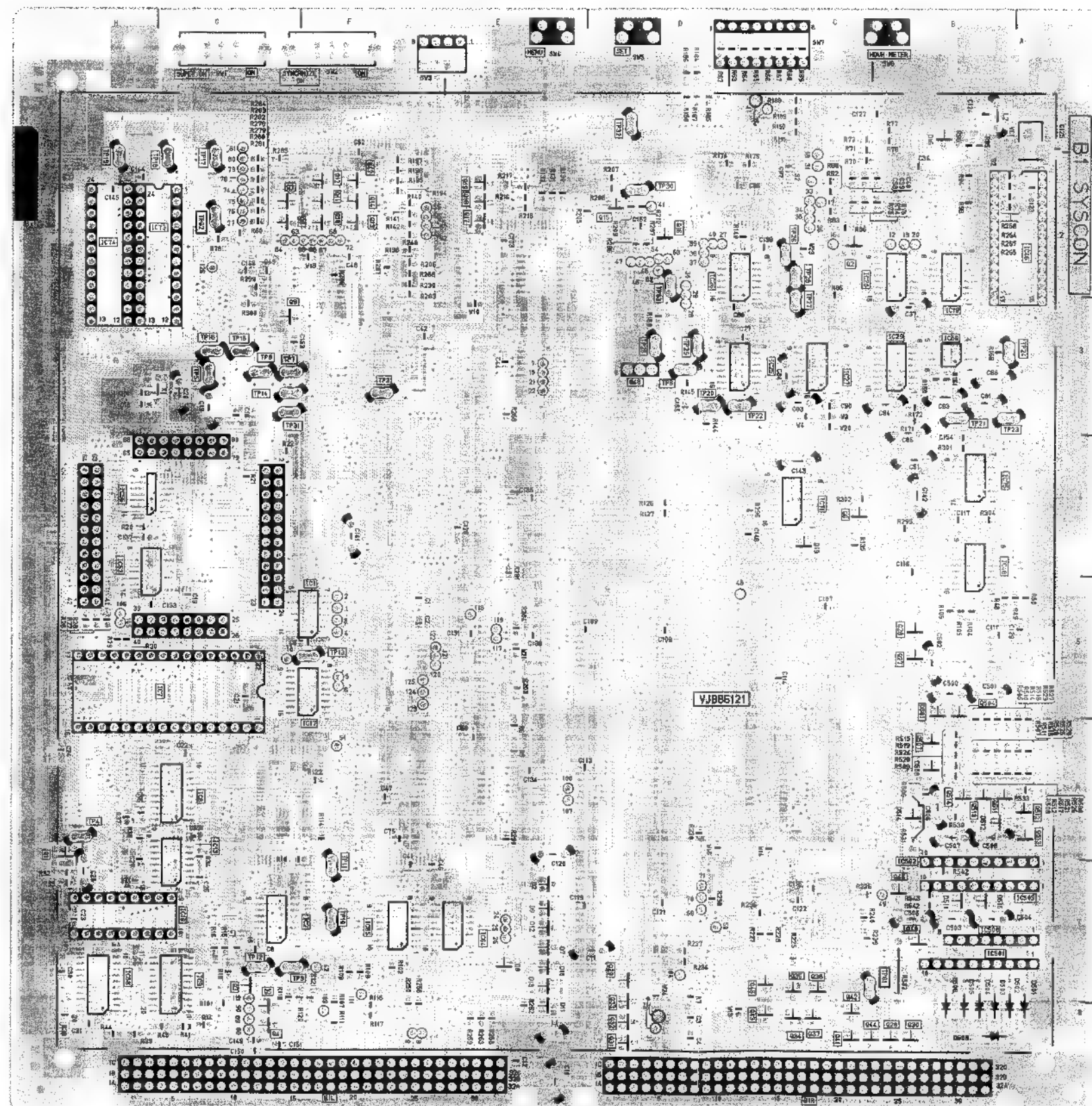


# BOARD

| MODEL TYPE | AU-65H    | AU-63H    | AU-62H    |
|------------|-----------|-----------|-----------|
| NTSC       | VEP86121A | VEP86121C | VEP86121B |
| PAL        | VEP86121D | VEP86121F | VEP86121E |



(COMPONENT SIDE)



(FOIL SIDE)

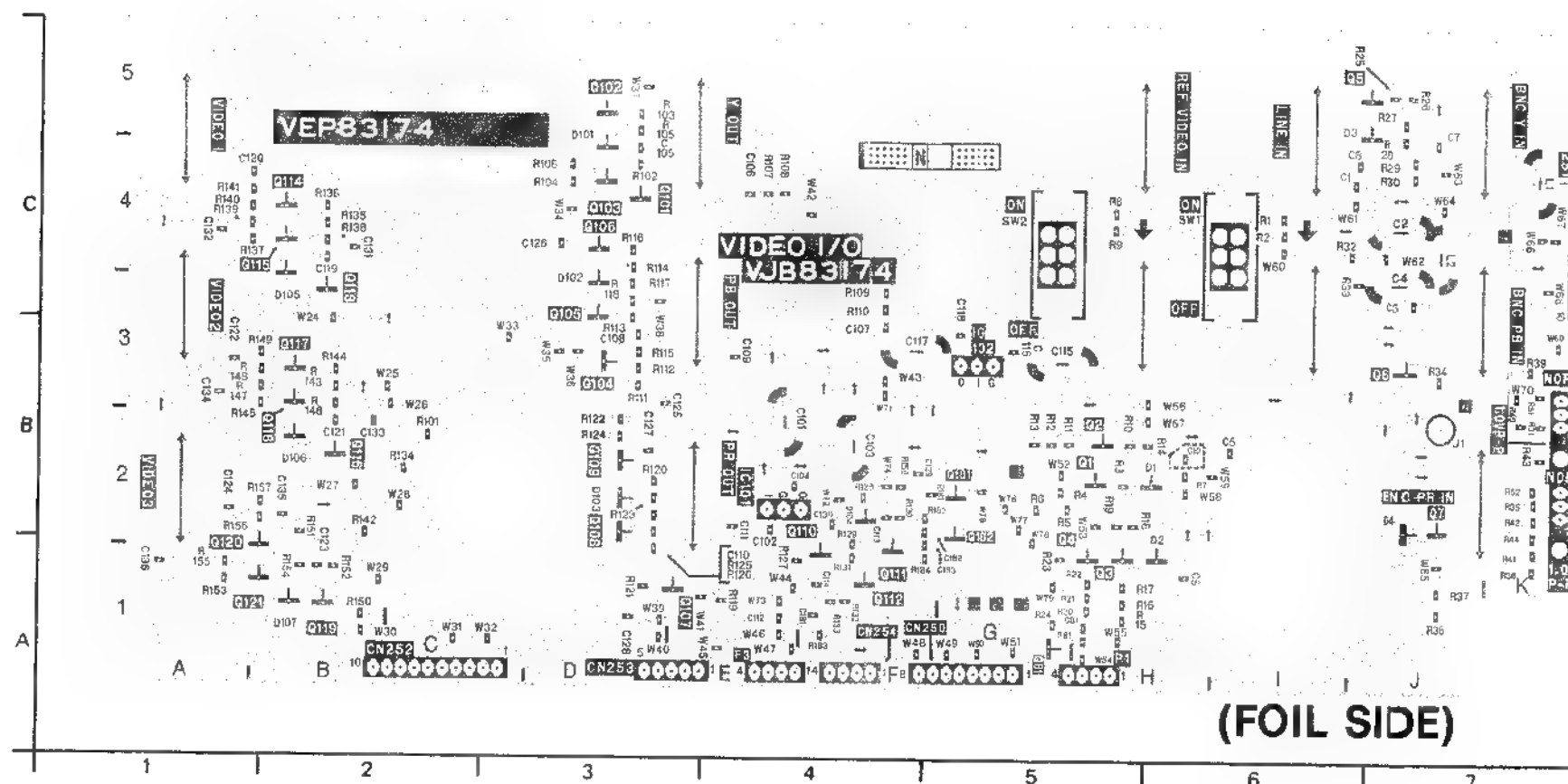


# B1 SYSCON P.C. BOARD

| COMPONENT SIDE        |     |            |     |      |      | FOIL SIDE  |      |                       |      |      |     |
|-----------------------|-----|------------|-----|------|------|------------|------|-----------------------|------|------|-----|
| TRANSISTOR            |     | IC40       | D-6 | TP18 | G-2  | TRANSISTOR |      | Q514                  | B-6  |      |     |
| Q20                   | D-6 | IC41       | D-6 | TC19 | H-2  | Q1         | H-6  | INTEGRATED<br>CIRCUIT |      |      |     |
| Q21                   | C-6 | IC42       | C-7 | TC20 | D-3  | Q2         | C-2  |                       |      |      |     |
| Q22                   | D-5 | IC43       | B-5 | TC21 | B-3  | Q3         | G-7  |                       |      |      |     |
| Q25                   | D-5 | IC44       | B-5 | TC22 | C-3  | Q4         | G-8  | IC1                   | F-5  |      |     |
| Q38                   | C-8 | IC45       | C-6 | TC23 | B-3  | Q5         | G-8  | IC2                   | G-7  |      |     |
| Q39                   | C-8 | IC46       | B-2 | TC24 | B-3  | Q6         | C-4  | IC8                   | G-6  |      |     |
| Q48                   | D-3 | IC47       | E-4 | TC25 | D-3  | Q7         | G-2  | IC9                   | G-7  |      |     |
| Q49                   | E-2 | IC49       | E-5 | TC26 | C-2  | Q8         | G-2  | IC13                  | G-6  |      |     |
| Q500                  | A-6 | IC50       | E-5 | TC27 | C-3  | Q9         | G-3  | IC17                  | F-5  |      |     |
| Q502                  | B-6 | IC51       | F-5 | TC28 | C-2  | Q10        | F-2  | IC19                  | B-2  |      |     |
| Q503                  | B-6 | IC53       | E-6 | TC29 | D-3  | Q11        | F-2  | IC20                  | B-2  |      |     |
| Q505                  | B-6 | IC54       | E-4 | TC30 | D-2  | Q12        | F-2  | IC25                  | C-3  |      |     |
| Q506                  | B-6 | IC55       | G-7 | TC31 | G-3  | Q13        | F-2  | IC26                  | C-2  |      |     |
| Q508                  | A-6 | IC57       | C-2 | TC32 | D-1  | Q14        | F-2  | IC27                  | C-3  |      |     |
| Q509                  | A-6 | IC60       | D-7 | TC33 | D-2  | Q15        | D-2  | IC29                  | B-3  |      |     |
| Q515                  | B-6 | IC61       | D-7 | TPG1 | C-7  | Q16        | D-2  | IC48                  | B-4  |      |     |
| INTEGRATED<br>CIRCUIT |     | IC62       | E-3 |      | TPG2 | G-2        | Q17  | E-2                   | IC52 | H-4  |     |
|                       |     | IC63       | E-3 | Q18  |      | E-2        | IC56 | H-4                   |      |      |     |
|                       |     |            |     | IC66 | F-6  | ADJUSTMENT |      | Q19                   | E-2  | IC58 | H-7 |
| IC3                   | G-7 | IC67       | E-6 | VC1  | A-1  | Q26        | B-5  | IC59                  | B-3  |      |     |
| IC4                   | G-6 | IC68       | F-2 |      |      | Q27        | B-5  | IC64                  | E-7  |      |     |
| IC5                   | G-4 | IC69       | E-3 |      |      | Q28        | B-8  | IC65                  | F-7  |      |     |
| IC6                   | G-3 | IC72       | E-5 |      |      | Q29        | D-7  | IC71                  | C-4  |      |     |
| IC7                   | G-5 | IC73       | H-2 |      |      | Q30        | B-8  | IC75                  | B-4  |      |     |
| IC10                  | H-7 | IC74       | H-2 |      |      | Q31        | D-8  |                       |      |      |     |
| IC11                  | G-6 | IC500      | B-7 |      |      | Q32        | D-8  |                       |      |      |     |
| IC12                  | H-6 | IC501      | B-7 |      |      | Q33        | D-8  |                       |      |      |     |
| IC14                  | G-7 | IC502      | B-7 |      |      | Q34        | C-8  |                       |      |      |     |
| IC15                  | H-7 | IC503      | B-7 |      |      | Q35        | C-7  |                       |      |      |     |
| IC16                  | F-5 | TEST POINT |     |      |      | Q36        | C-7  |                       |      |      |     |
| IC18                  | B-2 |            |     |      |      | Q37        | C-8  |                       |      |      |     |
| IC21                  | F-7 |            |     |      |      | Q40        | B-7  |                       |      |      |     |
| IC22                  | F-2 |            |     |      |      | Q41        | C-8  |                       |      |      |     |
| IC23                  | G-2 |            |     |      |      | Q42        | C-8  |                       |      |      |     |
| IC24                  | C-3 |            |     |      |      | Q43        | C-8  |                       |      |      |     |
| IC28                  | B-3 |            |     |      |      | Q44        | B-8  |                       |      |      |     |
| IC30                  | C-2 |            |     |      |      | Q45        | C-7  |                       |      |      |     |
| IC31                  | E-2 |            |     |      |      | Q46        | B-7  |                       |      |      |     |
| IC32                  | E-2 |            |     |      |      | TP10       | F-7  | Q47                   | F-2  |      |     |
| IC33                  | F-2 |            |     |      |      | TP11       | F-7  | Q501                  | B-5  |      |     |
| IC34                  | E-2 |            |     |      |      | TP12       | G-7  | Q504                  | B-5  |      |     |
| IC35                  | C-5 |            |     |      |      | TP13       | F-5  | Q507                  | B-6  |      |     |
| IC36                  | D-5 |            |     |      |      | TP14       | G-3  | Q510                  | B-6  |      |     |
| IC37                  | D-5 |            |     |      |      | TP15       | G-3  | Q511                  | B-6  |      |     |
| IC38                  | C-6 |            |     |      |      | TP16       | G 3  | Q512                  | A-6  |      |     |
| IC39                  | B-5 |            |     | TP17 | G-2  | Q513       | A-6  |                       |      |      |     |

## VIDEO I/O P.C. BOARD

| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  | VEP83174A | VEP83174B | VEP83174B |
| NTSC  | VEP83174C | VEP83174B | VEP83174B |
| PAL   | VEP83174C | VEP83174B | VEP83174B |

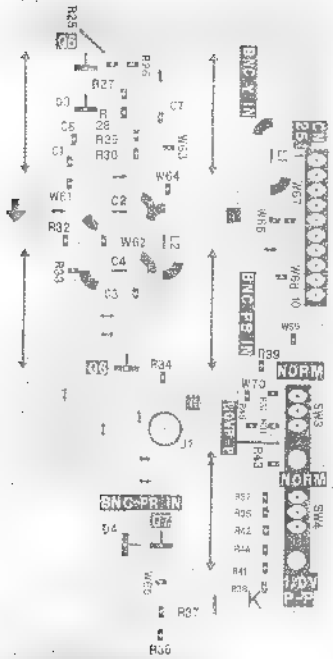


## VIDEO I/O P.C. BOARD

| FOIL SIDE  |     |      |     | INTEGRATED |       |     |
|------------|-----|------|-----|------------|-------|-----|
| TRANSISTOR |     |      |     | CIRCUIT    |       |     |
| Q1         | H-2 | Q111 | F-1 | IC101      | E-2   |     |
| Q2         | H-2 | Q112 | F-1 | IC102      | G-3   |     |
| Q3         | H-1 | Q113 | B-3 | CONNECTOR  |       |     |
| Q4         | H-1 | Q114 | B-4 |            |       |     |
| Q5         | J-5 | Q115 | B-4 |            | QV250 | G-1 |
| Q6         | J-3 | Q116 | B-2 |            | QV251 | K-4 |
| Q7         | J-2 | Q117 | B-3 |            | QV252 | C-1 |
| Q81        | G-1 | Q118 | B-3 |            | QV253 | D-1 |
| Q101       | D-4 | Q119 | B-1 |            | QV254 | F-1 |
| Q102       | D-5 | Q120 | B-1 |            |       |     |
| Q103       | D-4 | Q121 | B-1 |            | P1    | H-1 |
| Q104       | D-3 | Q181 | G-2 |            | P3    | E-1 |
| Q105       | D-3 | Q182 | G-2 |            |       |     |
| Q106       | D-4 |      |     |            |       |     |
| Q107       | E-1 |      |     |            |       |     |
| Q108       | D-2 |      |     |            |       |     |
| Q109       | D-2 |      |     |            |       |     |
| Q110       | F-1 |      |     |            |       |     |

AUDIO I/O P.C.BOARD

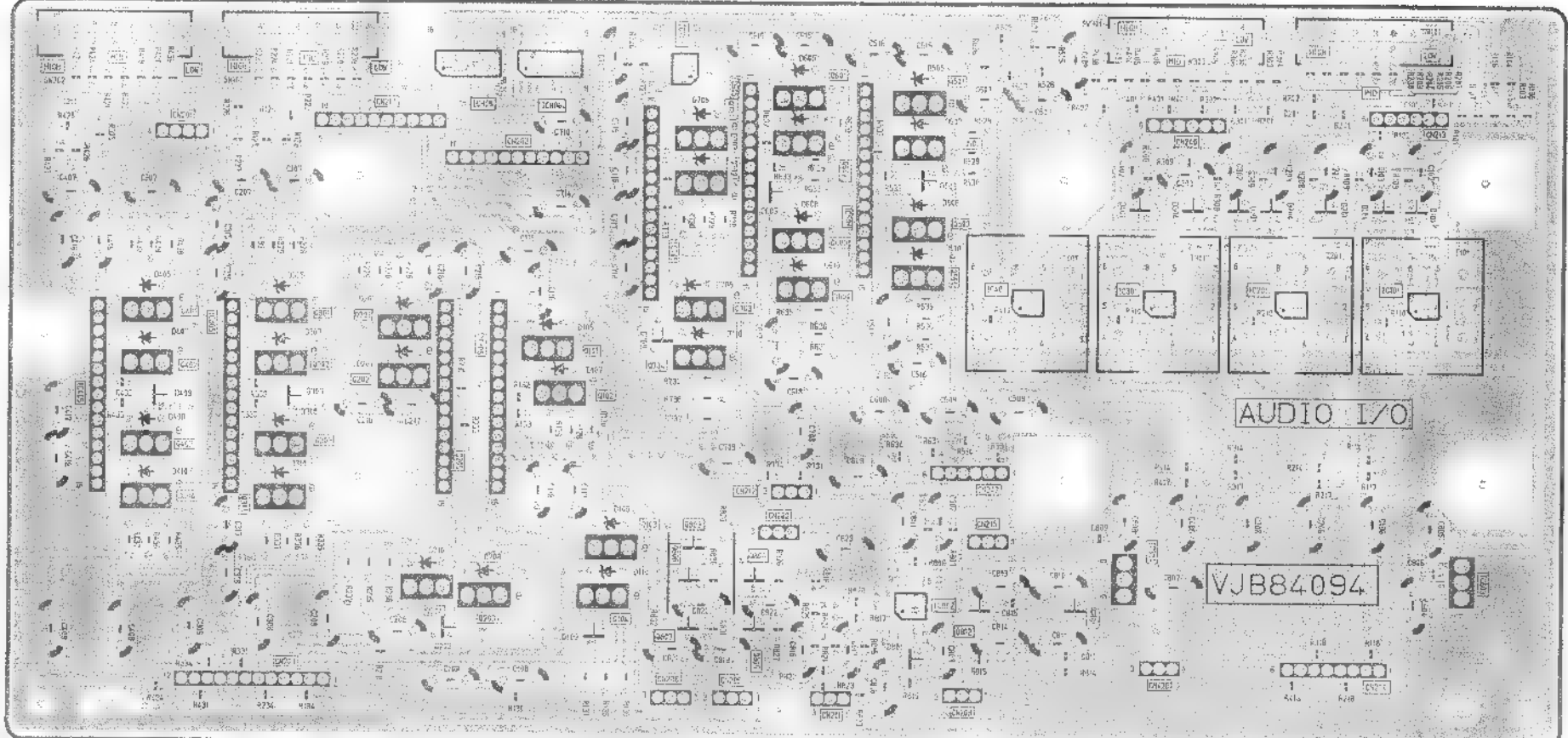
| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  |           |           |           |
| NTSC  | VEP84094G | VEP84094C | VEP84094C |
| PAL   | VEP84094G | VEP84094C | VEP84094C |



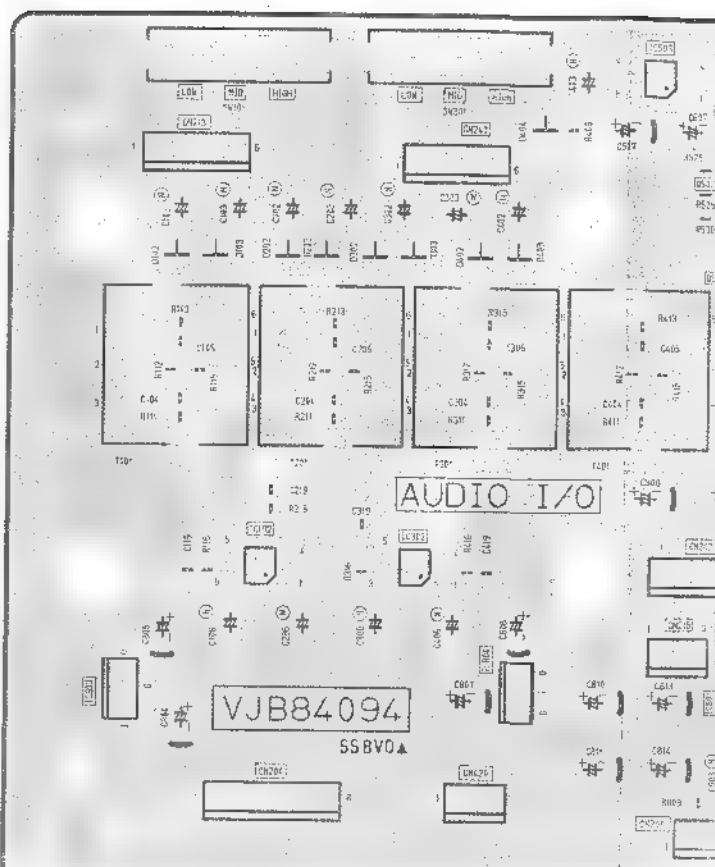
IL SIDE)

C. BOARD

|     | INTEGRATED |     |
|-----|------------|-----|
|     | CIRCUIT    |     |
| 2-1 | IC101      | E-2 |
| 2-1 | IC102      | G-3 |
| 3-3 |            |     |
| 3-4 | CONNECTOR  |     |
| 3-4 | CN250      | G-1 |
| 3-2 | CN251      | K-4 |
| 3-3 | CN252      | C-1 |
| 3-3 | CN253      | D-1 |
| 3-1 | CN254      | F-1 |
| 3-1 |            |     |
| 3-1 | P1         | H-1 |
| 3-2 | P3         | E-1 |
| 3-2 |            |     |

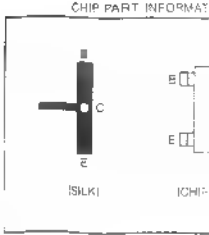


(FOIL SIDE)



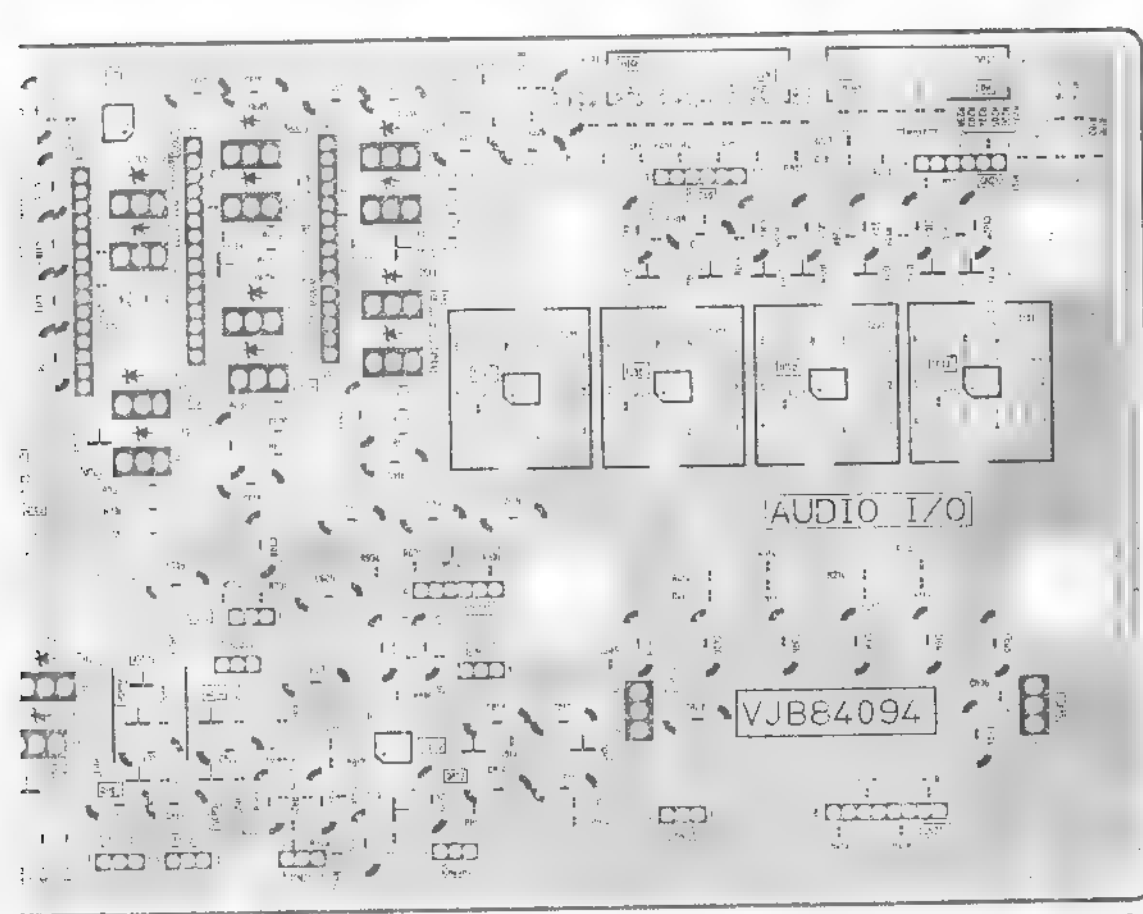
| AUDIO I/O          |     |       |     |       |                    |       |     |  |  |
|--------------------|-----|-------|-----|-------|--------------------|-------|-----|--|--|
| FOIL SIDE          |     |       |     |       | COMPONENT SIDE     |       |     |  |  |
| TRANSISTOR         |     |       |     |       | INTEGRATED CIRCUIT |       |     |  |  |
| Q101               | C-3 | Q601  | C-5 | IC301 | C-6                | CN206 | A-4 |  |  |
| Q102               | C-3 | Q602  | D-5 | IC305 | C-2                | CN207 | A-2 |  |  |
| Q103               | B-4 | Q603  | C-5 | IC401 | C-6                | CN208 | A-5 |  |  |
| Q104               | B-4 | Q604  | C-5 | IC505 | C-5                | CN211 | A-5 |  |  |
| Q201               | C-3 | Q701  | D-4 | IC605 | D-4                | CN212 | B-5 |  |  |
| Q202               | C-3 | Q702  | D-4 | IC703 | D-4                | CN213 | D-8 |  |  |
| Q203               | B-3 | Q703  | C-4 | IC705 | C-4                | CN215 | B-6 |  |  |
| Q204               | B-3 | Q704  | C-4 | IC802 | B-5                | CN240 | D-6 |  |  |
| Q301               | C-2 | Q801  | A-6 | IC803 | B-8                | CN242 | B-5 |  |  |
| Q302               | C-2 | Q802  | A-5 | IC804 | B-6                | CN420 | A-6 |  |  |
| Q303               | B-2 | Q803  | B-4 | IC805 | D-3                |       |     |  |  |
| Q304               | B-2 | Q804  | B-4 | IC806 | D-3                |       |     |  |  |
| Q401               | C-2 | Q805  | A-4 |       |                    |       |     |  |  |
| Q402               | C-2 | Q806  | B-4 |       |                    |       |     |  |  |
| Q403               | B-2 | Q807  | A-4 |       |                    |       |     |  |  |
| Q404               | B-2 |       |     |       |                    |       |     |  |  |
| Q501               | D-5 |       |     |       |                    |       |     |  |  |
| Q502               | D-5 |       |     |       |                    |       |     |  |  |
| Q503               | C-5 |       |     |       |                    |       |     |  |  |
| INTEGRATED CIRCUIT |     |       |     |       | CONNECTOR          |       |     |  |  |
| IC101              | C-8 | CN200 | D-3 |       |                    |       |     |  |  |
| IC105              | C-3 | CN201 | D-2 |       |                    |       |     |  |  |
| IC201              | C-7 | CN202 | B-5 |       |                    |       |     |  |  |
| IC205              | B-3 | CN203 | D-3 |       |                    |       |     |  |  |
|                    |     | CN204 | A-7 |       |                    |       |     |  |  |
|                    |     | CN205 | A-4 |       |                    |       |     |  |  |

ADDRESS INFORMATION

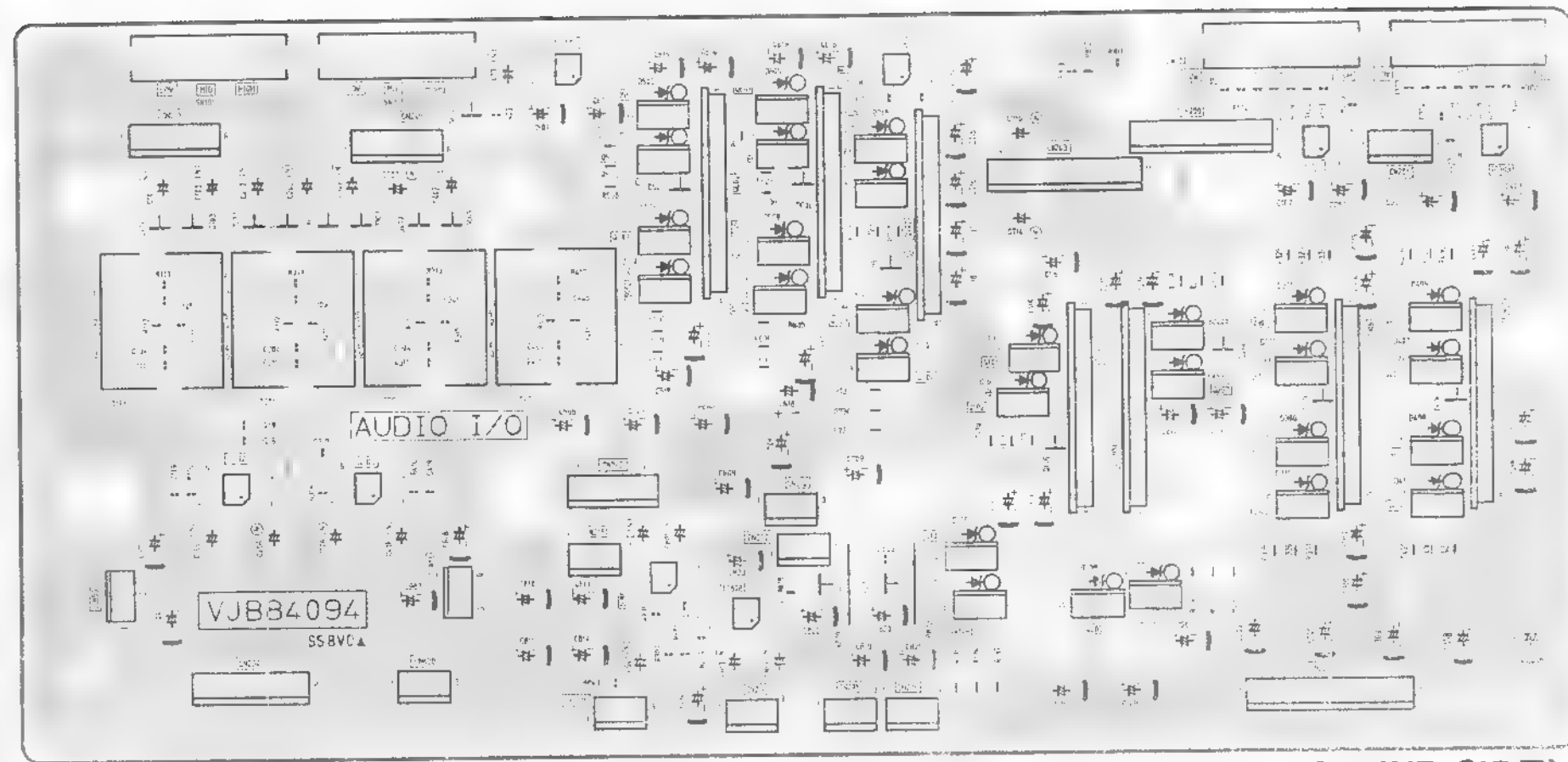




|      |           |           |
|------|-----------|-----------|
| 35H  | AU-63H    | AU-62H    |
| 094G | VEP84094C | VEP84094C |
| 094G | VEP84094C | VEP84094C |



(FOIL SIDE)

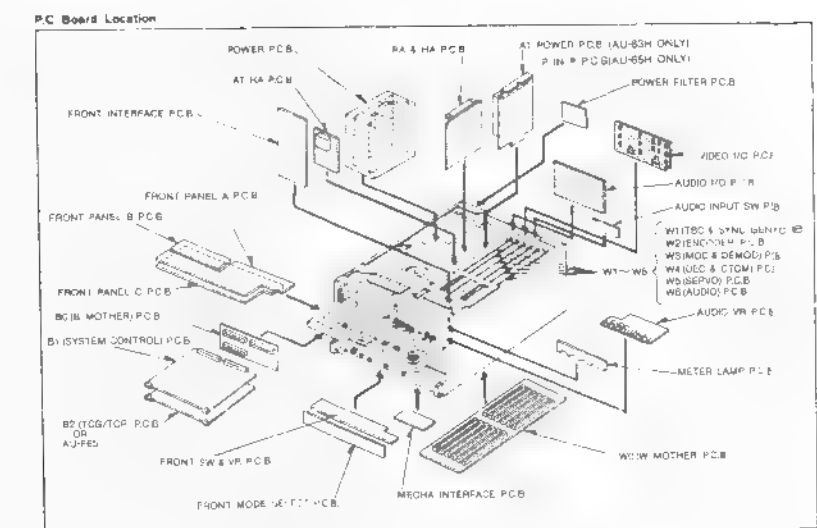
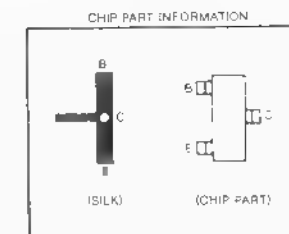


(COMPONENT SIDE)

|   |   |   |   |   |   |    |    |    |    |    |    |    |
|---|---|---|---|---|---|----|----|----|----|----|----|----|
| 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|----|----|----|----|----|----|----|

| AUDIO I/O          |     |       |     |       |                    |       |     |       |      |
|--------------------|-----|-------|-----|-------|--------------------|-------|-----|-------|------|
| FOIL SIDE          |     |       |     |       | COMPONENT SIDE     |       |     |       |      |
| TRANSISTOR         |     |       |     |       | INTEGRATED CIRCUIT |       |     |       |      |
| Q101               | C-3 | Q601  | D-5 | IC301 | C-6                | CN206 | A-4 | IC102 | B-10 |
| Q102               | C-3 | Q602  | D-5 | IC305 | C-2                | CN207 | A-2 | IC103 | D-15 |
| Q103               | B-4 | Q603  | C-5 | IC401 | C-1                | CN208 | A-5 | IC302 | B-10 |
| Q104               | B-4 | Q604  | C-5 | IC505 | C-5                | CN212 | B-5 | IC303 | D-16 |
| Q201               | C-3 | Q701  | D-4 | IC605 | D-4                | CN213 | D-8 | IC503 | D-11 |
| Q202               | C-3 | Q702  | D-4 | IC703 | D-4                | CN215 | D-6 | IC704 | D-13 |
| Q203               | B-3 | Q703  | C-4 | IC705 | C-4                | CN240 | B-5 | IC801 | B-12 |
| Q204               | B-3 | Q704  | C-4 | IC802 | B-5                | CN242 | A-6 | IC808 | B-12 |
| Q301               | C-2 | Q801  | A-6 | IC803 | B-8                | CN420 |     |       |      |
| Q302               | C-2 | Q802  | A-5 | IC804 | B-6                |       |     |       |      |
| Q303               | B-2 | Q803  | B-4 | IC805 | D-3                |       |     |       |      |
| Q304               | B-2 | Q804  | B-4 | IC806 | D-3                |       |     |       |      |
| Q401               | C-2 | Q805  | A-4 |       |                    |       |     |       |      |
| Q402               | C-2 | Q806  | B-4 |       |                    |       |     |       |      |
| Q403               | B-2 | Q807  | A-4 |       |                    |       |     |       |      |
| Q404               | B-2 |       |     |       |                    |       |     |       |      |
| Q501               | D-5 |       |     |       |                    |       |     |       |      |
| Q502               | D-5 |       |     |       |                    |       |     |       |      |
| Q503               | C-5 |       |     |       |                    |       |     |       |      |
| INTEGRATED CIRCUIT |     |       |     |       | CONNECTOR          |       |     |       |      |
| IC101              | C-8 | CN200 | D-3 |       |                    |       |     |       |      |
| IC105              | C-3 | CN201 | D-2 |       |                    |       |     |       |      |
| IC201              | C-7 | CN202 | B-5 |       |                    |       |     |       |      |
| IC205              | B-3 | CN203 | D-3 |       |                    |       |     |       |      |
|                    |     | CN204 | A-7 |       |                    |       |     |       |      |
|                    |     | CN205 | A-4 |       |                    |       |     |       |      |

ADDRESS INFORMATION



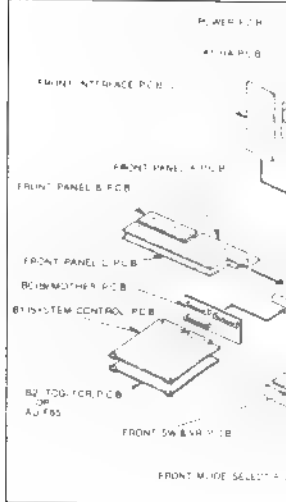
REVERSE SIDE

FRONT PANEL A P.C.BOARD  
FRONT PANEL B P.C.BOARD

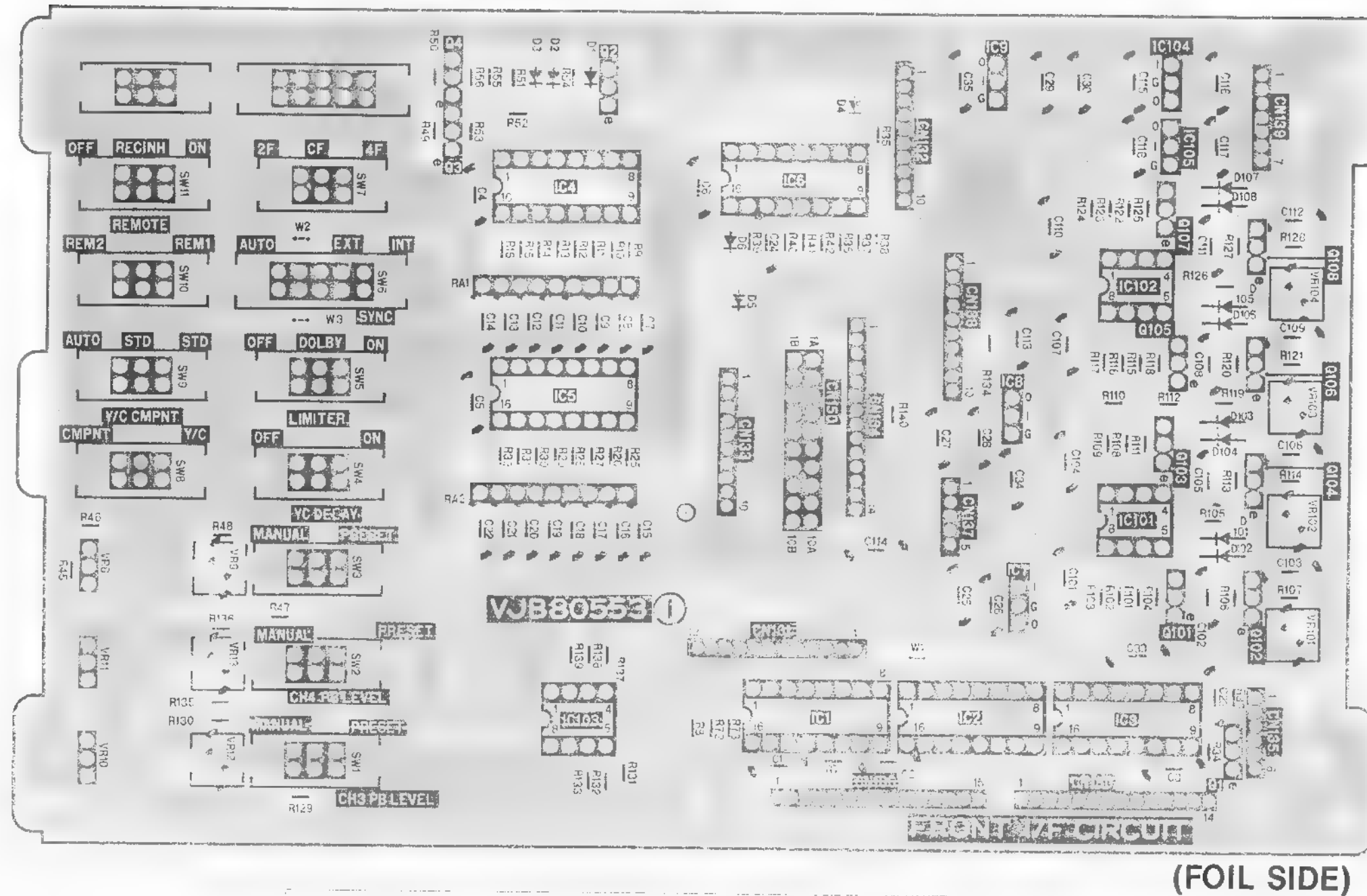
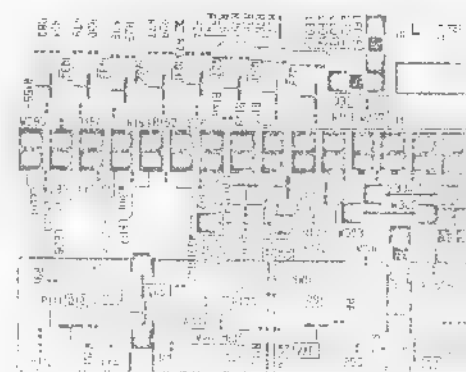
# FRONT INTERFACE P.C.BOARD

| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  | VEP80553D | VEP80553C | VEP80553B |
| PAL   | VEP80631D | VEP80631B | VEP80631C |

P.C. Board Location



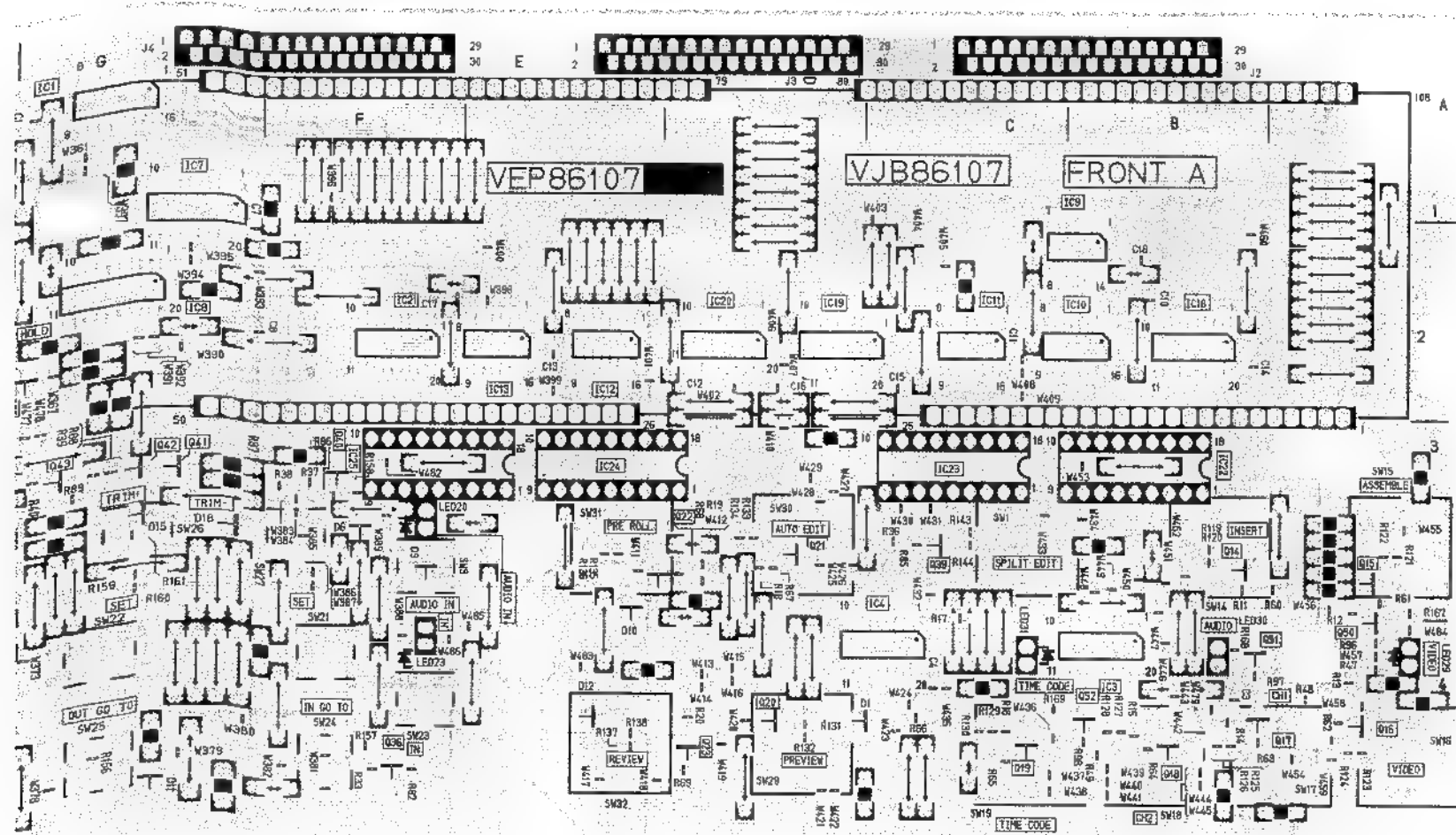
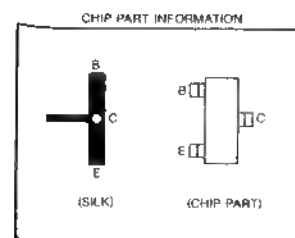
## FRONT PANEL A P.C.



(FOIL SIDE)

| FRONT INTERFACE     |            |                    |     |            |     |           |     |
|---------------------|------------|--------------------|-----|------------|-----|-----------|-----|
| FOIL SIDE           | TRANSISTOR | Q105               | E-8 | IC6        | F-5 | VR9       | D-2 |
| Q1                  | C-8        | Q106               | E-8 | IC7        | D-7 | VR101     | D-9 |
| Q2                  | G-4        | Q107               | F-8 | IC8        | E-7 | VR102     | D-9 |
| Q3                  | G-3        | Q108               | F-8 | IC9        | G-7 | VR103     | E-9 |
| Q101                | G-3        | INTEGRATED CIRCUIT |     | IC101      | D-8 | VR104     | F-9 |
| Q102                | D-8        | ID1                | C-6 | IC102      | F-8 | CONNECTOR |     |
| Q103                | D-8        | IC2                | C-7 | IC104      | G-8 | CN130     | C-7 |
| Q104                | E-8        | IC3                | C-8 | IC105      | G-8 | CN131     | C-5 |
|                     | E-8        | IC4                | F-4 | ADJUSTMENT |     | CN132     | G-6 |
|                     |            | IC5                | E-4 | VR8        | D-1 | CN133     | E-5 |
| ADDRESS INFORMATION |            |                    |     |            |     |           |     |
|                     |            |                    |     |            |     | CN134     | E-6 |
|                     |            |                    |     |            |     | CN135     | C-8 |
|                     |            |                    |     |            |     | CN136     | C-6 |
|                     |            |                    |     |            |     | CN137     | D-6 |
|                     |            |                    |     |            |     | CN138     | E-6 |
|                     |            |                    |     |            |     | CN139     | G-8 |
|                     |            |                    |     |            |     | CN150     | E-6 |





(FOIL SIDE)

# FRONT PANEL A

| FOIL SIDE  |     |                       |     |
|------------|-----|-----------------------|-----|
| TRANSISTOR |     | Q47 H-2               |     |
| Q1         | M-1 | Q48                   | H-2 |
| Q2         | L-1 | Q49                   | H-1 |
| Q3         | L-1 | Q50                   | A-4 |
| Q4         | I-3 | Q51                   | B-4 |
| Q5         | J-3 | Q52                   | B-4 |
| Q6         | J-3 | Q53                   | H-2 |
| Q7         | J-4 | Q54                   | H-2 |
| Q8         | L-2 | Q55                   | G-2 |
| Q9         | L-2 | Q56                   | H-2 |
| Q10        | M-2 | INTEGRATED<br>CIRCUIT |     |
| Q11        | J-2 |                       |     |
| Q12        | K-3 | IC1                   | G-1 |
| Q13        | J-3 | IC2                   | K-4 |
| Q14        | B-3 | IC3                   | B-4 |
| Q15        | A-3 | IC4                   | C-4 |
| Q16        | A-4 | IC5                   | L-1 |
| Q17        | B-4 | IC6                   | I-4 |
| Q18        | B-4 | IC7                   | G-1 |
| Q19        | C-4 | IC8                   | G-2 |
| Q20        | D-4 | IC9                   | B-2 |
| Q21        | D-3 | IC10                  | B-2 |
| Q22        | D-3 | IC11                  | C-2 |
| Q23        | D-4 | IC12                  | E-2 |
| Q24        | J-3 | IC13                  | E-2 |
| Q25        | J-3 | IC19                  | D-2 |
| Q26        | J-3 | IC20                  | D-2 |
| Q27        | M-1 | IC21                  | F-2 |
| Q28        | M-1 | IC22                  | B-3 |
| Q29        | L-1 | IC23                  | C-3 |
| Q30        | L-1 | IC24                  | E-3 |
| Q31        | M-1 | IC25                  | F-3 |
| Q32        | M-1 | TEST POINT            |     |
| Q33        | M-1 |                       |     |
| Q34        | M-1 | TP1                   | J-4 |
| Q35        | H-4 | TP6                   | J-3 |
| Q36        | F-4 | TP7                   | J-2 |
| Q37        | K-4 | TP12                  | C-4 |
| Q38        | I-4 | TP13                  | D-4 |
| Q39        | C-3 | TP14                  | L-4 |
| Q40        | F-3 | TP15                  | K-3 |
| Q41        | G-3 | ADJUSTMENT            |     |
| Q42        | G-3 |                       |     |
| Q43        | G-3 | VR1                   | M-4 |
| Q44        | M-1 | VR2                   | L-3 |
| Q45        | H-2 | CONNECTOR             |     |
| Q46        | H-2 |                       |     |

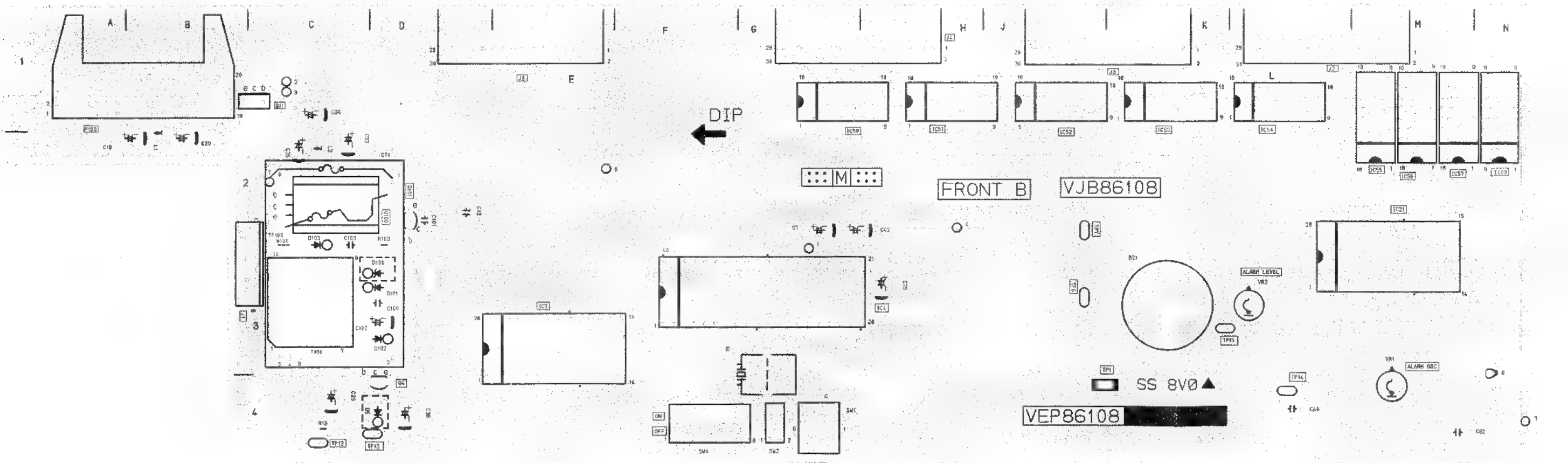
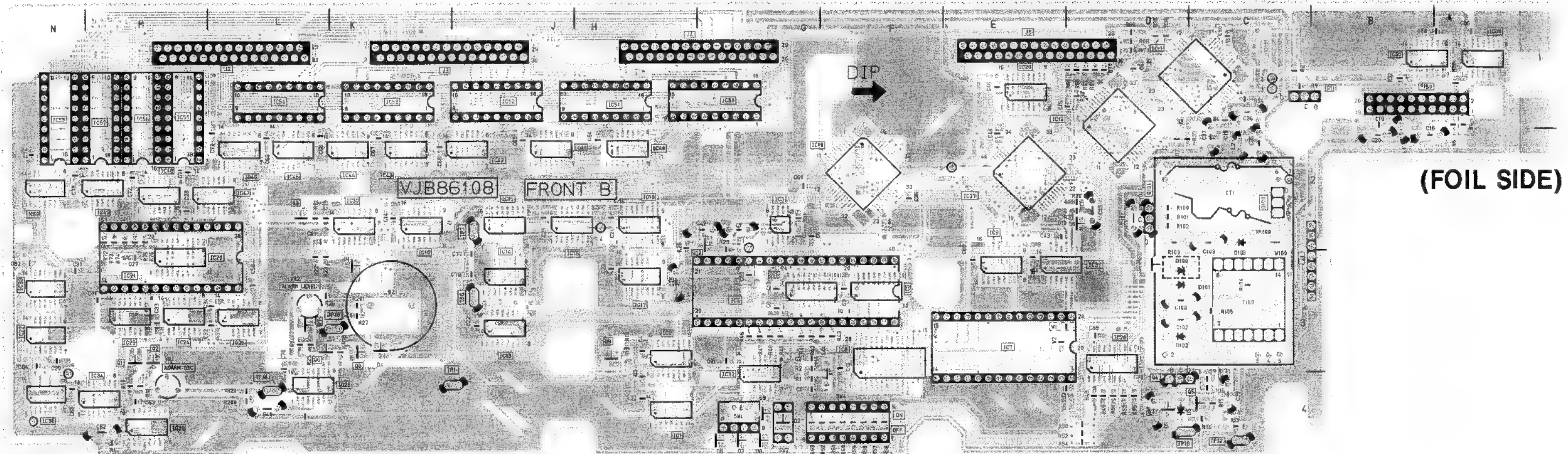
# FRONT PANEL B

| FOIL SIDE             |     |            |     |
|-----------------------|-----|------------|-----|
| TRANSISTOR            |     | IC31 B-1   |     |
| Q1                    | M-3 | IC32       | G-3 |
| Q2                    | M-3 | IC33       | N-3 |
| Q3                    | L-2 | IC34       | M-4 |
| Q4                    | D-4 | IC36       | N-4 |
| Q5                    | C-4 | IC37       | E-3 |
| Q6                    | L-3 | IC38       | A-1 |
| Q7                    | L-3 | IC39       | M-4 |
| Q8                    | K-3 | IC40       | H-2 |
| Q9                    | M-3 | IC41       | J-2 |
| Q10                   | G-2 | IC42       | J-2 |
| Q11                   | C-1 | IC43       | K-2 |
| Q100                  | C-2 | IC44       | K-2 |
| Q101                  | D-2 | IC45       | L-2 |
| INTEGRATED<br>CIRCUIT |     | IC46       | L-2 |
|                       |     | IC47       | L-2 |
| IC1                   | H-4 | IC48       | M-2 |
| IC2                   | H-3 | IC49       | M-2 |
| IC3                   | G-2 | IC50       | G-1 |
| IC4                   | G-3 | IC51       | H-1 |
| IC5                   | F-3 | IC52       | J-1 |
| IC6                   | G-3 | IC53       | K-1 |
| IC7                   | E-3 | IC54       | L-1 |
| IC8                   | F-3 | IC55       | M-1 |
| IC9                   | E-3 | IC56       | M-1 |
| IC10                  | K-2 | IC57       | M-1 |
| IC11                  | C-1 | IC58       | N-1 |
| IC12                  | D-1 | IC59       | N-2 |
| IC13                  | J-3 | TEST POINT |     |
| IC14                  | J-3 |            |     |
| IC15                  | J-2 | TP1        | J-4 |
| IC16                  | H-2 | TP6        | J-3 |
| IC17                  | H-3 | TP7        | J-2 |
| IC18                  | H-2 | TP12       | C-4 |
| IC19                  | F-2 | TP13       | D-4 |
| IC20                  | M-3 | TP14       | L-4 |
| IC21                  | M-3 | TP15       | K-3 |
| IC22                  | N-3 | ADJUSTMENT |     |
| IC23                  | M-3 |            |     |
| IC24                  | M-3 | VR1        | M-4 |
| IC25                  | L-3 | VR2        | L-3 |
| IC26                  | L-4 | CONNECTOR  |     |
| IC27                  | E-2 |            |     |
| IC28                  | D-3 | P150       | B-1 |
| IC29                  | E-1 | J1         | C-2 |
| IC30                  | K-2 | J2         | L-1 |



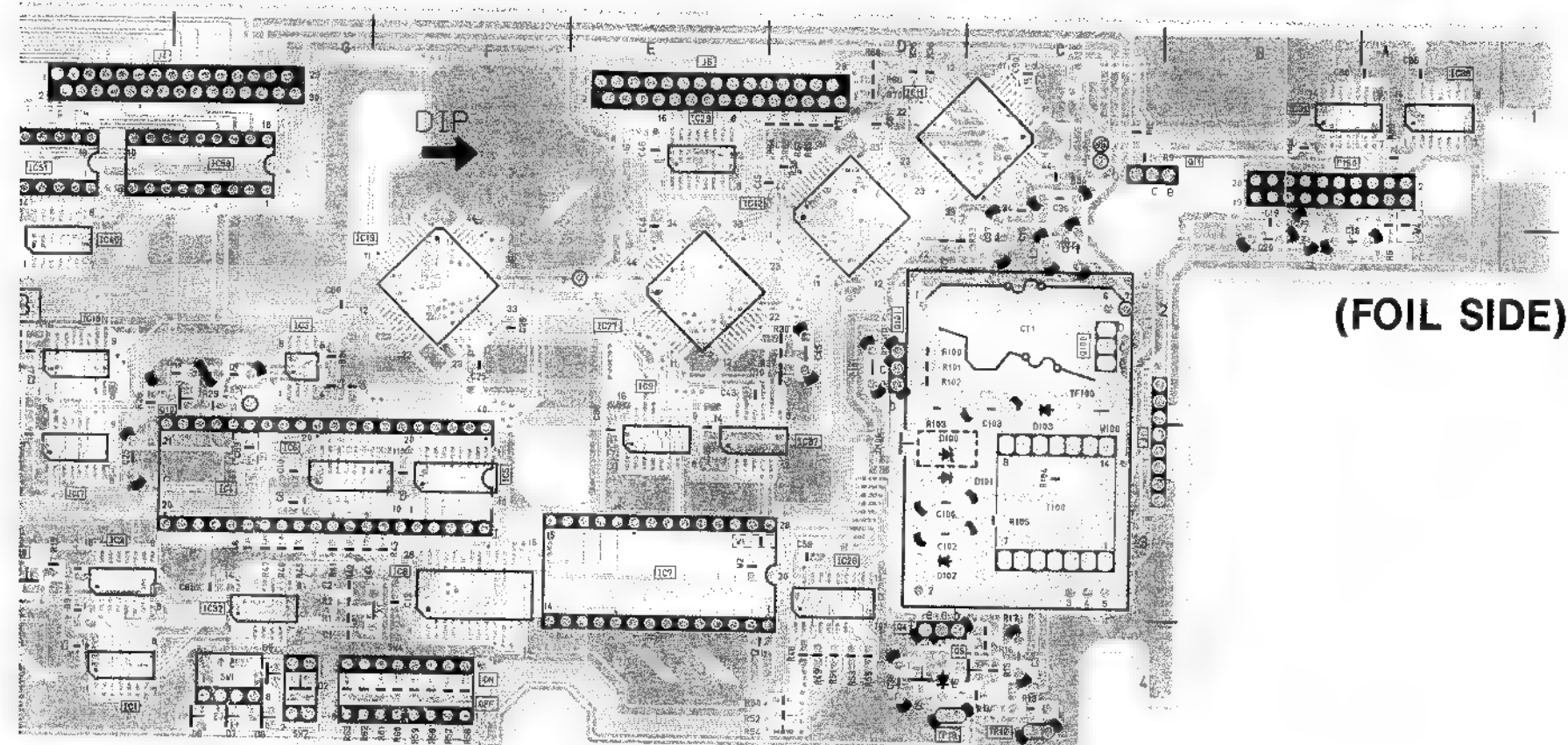
FRONT PANEL B P.C.BOARD(FOR AU-65H)

| MODEL | AU-65H    | AU-63H    | AU-62H    |
|-------|-----------|-----------|-----------|
| TYPE  | VEP86108C | VEP86076E | VEP86076E |
| PAL   | VEP86108D | VEP86076F | VEP86076F |



|     |           |           |
|-----|-----------|-----------|
| 5H  | AU-63H    | AU-62H    |
| 08C | VEP86076E | VEP86076E |
| 08D | VEP86076F | VEP86076F |

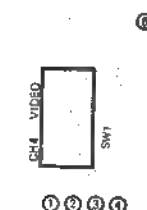
FRONT PANEL B P.C.  
METER CHANGE SW  
METER LAMP P.C.B



## METER CHANGE SW P.C.BOARD

(FOIL SIDE)

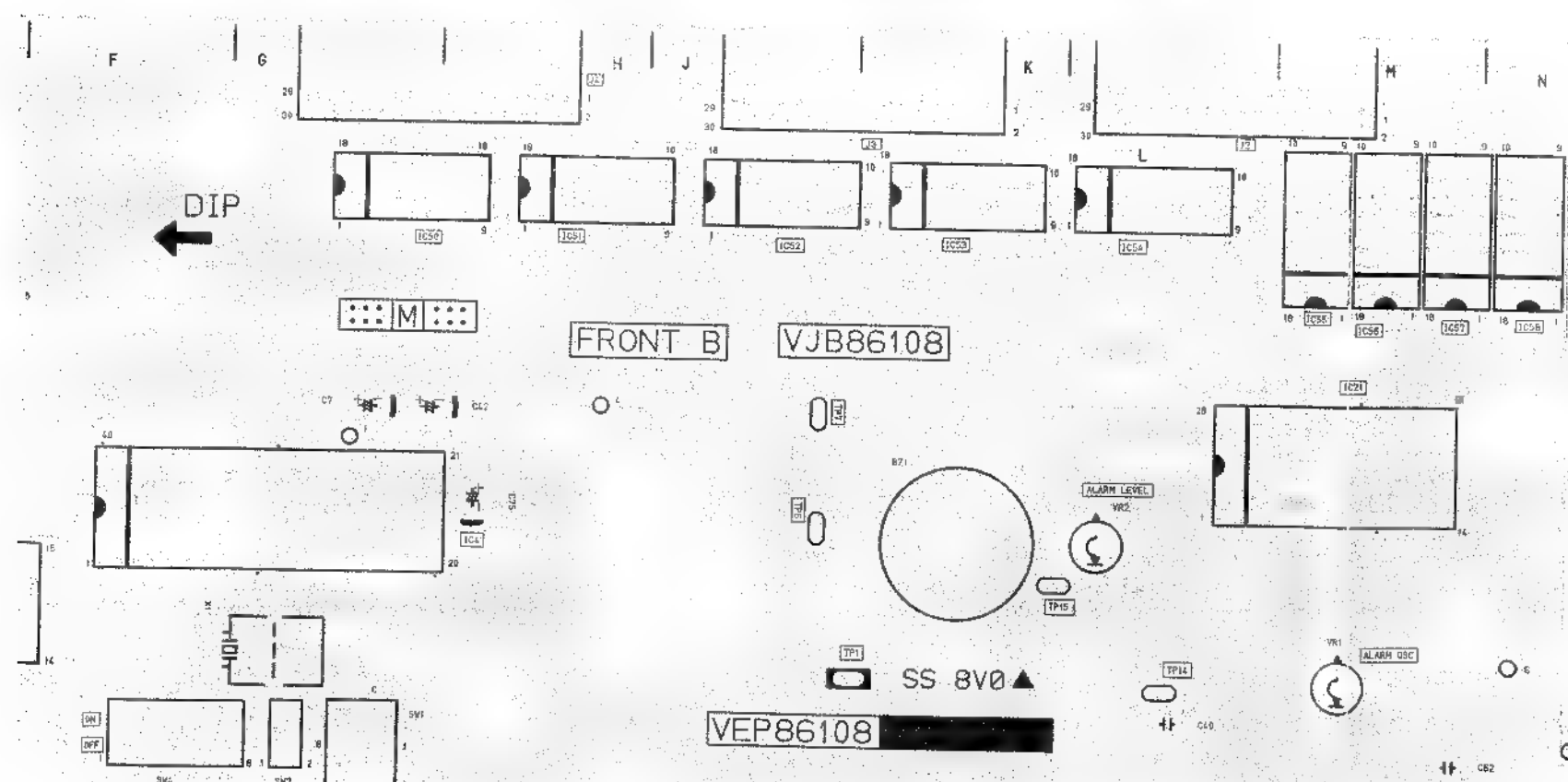
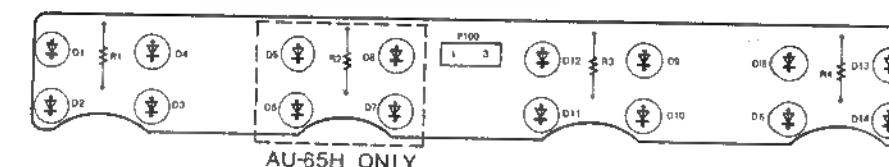
| MODEL | AU-65H | AU-63H    | AU-62H    |
|-------|--------|-----------|-----------|
| TYPE  | NTSC   | VEP80083B | VEP80083B |
|       | PAL    | VEP80083B | VEP80083B |



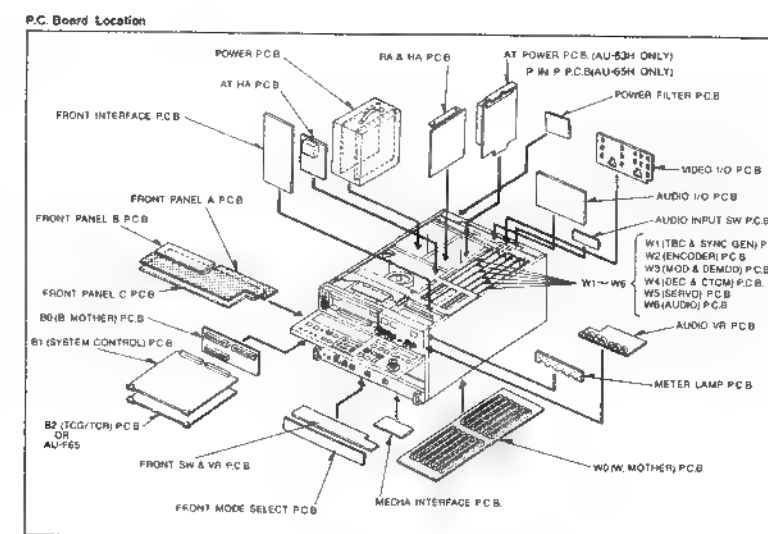
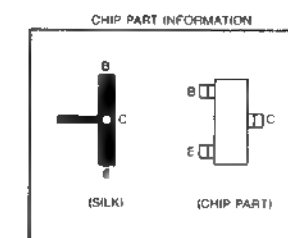
| MODEL | AU-65H | AU-63H    | AU-62H    |
|-------|--------|-----------|-----------|
| TYPE  | NTSC   | VEP80333C | VEP80333B |
|       | PAL    | VEP80333C | VEP80333B |

## METER LAMP P.C.BOARD

(FOIL SIDE)



(COMPONENT SIDE)



## PARTS LISTS

- Electrical Parts Lists
- Exploded Views
- Mechanical Parts Lists

This section provides the exploded views, mechanical parts lists and electrical parts lists.

### Note :

1. \*Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K = 1,000 OHMS, all capacitors are in MICROFARADS (uF), P = uuF.
3. The P.C.Board units marked with "■" show below the main assembled parts.
4. The parts marked with E on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE  
Components identified with the mark <I> have the special characteristics for safety. When replacing any of these components, use only the same type.

### << Abbreviations for parts >>

| < NAME >       | < DESCRIPTIONS >                        |
|----------------|---|
| C.CAPACITOR    | : CERAMIC CAPACITOR                     |
| C.CAPACITOR CH | : CERAMIC CHIP CAPACITOR                |
| E.CAPACITOR    | : ELECTROLYTIC CAPACITOR                |
| G.CAPACITOR    | : GLASS CAPACITOR                       |
| M.CAPACITOR    | : MICA CAPACITOR                        |
| P.CAPACITOR    | : PLASTIC FILM CAPACITOR                |
| S.CAPACITOR    | : SEMI-CONDUCTOR CAPACITOR              |
| T.CAPACITOR    | : TANTALUM CAPACITOR                    |
| TRIMMER        | : TRIMMER                               |
| C.RESISTOR     | : CARBON RESISTOR                       |
| F.RESISTOR     | : FUSE RESISTOR                         |
| M.RESISTOR     | : METAL OXIDE RESISTOR                  |
| M.RESISTOR CH  | : METAL OXIDE CHIP RESISTOR             |
| S.RESISTOR     | : SOLID RESISTOR                        |
| V.RESISTOR     | : VARIABLE RESISTOR                     |
| W.RESISTOR     | : WIRE WOUND RESISTOR                   |
| COMBI.TR-R     | : TRANSISTOR-RESISTOR COMBINATION PARTS |
| COMBI.R-R      | : RESISTOR-RESISTOR COMBINATION PARTS   |
| COMBI.C-R      | : CAPACITOR-RESISTOR COMBINATION PARTS  |
| COMBI.C-R-R    | : CAPACITOR-RESISTOR-COIL COMBINATION P |
| P.C. BOARD     | : PRINTED CIRCUIT BOARD                 |
| W/COMPONENT    | : WITH COMPONENT                        |

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## P.C.BOARDS LIST (TREE STYLE)

| P.C.BOARD NAME              | VEP NUMBER<br>(AU-65H PAL) | VEP NUMBER<br>(AU-63H PAL) | VEP NUMBER<br>(AU-62H PAL) |
|-----------------------------|----------------------------|----------------------------|----------------------------|
| 1. W0 MOTHER 1              | VEP80765A                  | VEP80765C                  | VEP80765B                  |
| 2. W1 TBC & SYNC GEN        | VEP88091C                  | VEP88091C                  | VEP88091C                  |
| 3. W1 TBC SUB               | VEP80681A                  | VEP80681A                  | VEP80681A                  |
| 4. W2 ENCODER               | VEP88063M                  | VEP88063N                  | VEP88063Q                  |
| 5. W2 SUB                   | VEP80632A                  | VEP80632A                  | VEP80632A                  |
| 6. W3 MOD & DEMOD           | VEP83098E                  | VEP83098F                  | VEP83098G                  |
| 7. W4 DEC & CTCM            | VEP83173A                  | -----                      | -----                      |
| 8. W5 SERVO                 | VEP82061E                  | VEP82061F                  | VEP82061E                  |
| 9. W6 AUDIO                 | VEP84095K                  | VEP84095E                  | VEP84095E                  |
| 10. W0 MOTHER 2             | VEP80549H                  | VEP80549K                  | VEP80549J                  |
| 11. B1 SYSTEM CONTROL       | VEP86121D                  | VEP86121F                  | VEP86121E                  |
| 12. B2 TCG/TCR              | VEP86089C                  | VEP86089C                  | VEP86089C                  |
| 13. AT H.A                  | -----                      | -----                      | -----                      |
| 14. AT POWER                | -----                      | VEP82062A                  | -----                      |
| 15. AUDIO INPUT SW          | VEP84103A                  | -----                      | -----                      |
| 16. AUDIO IN/OUT            | VEP84094G                  | VEP84094C                  | VEP84094C                  |
| 17. AUDIO IN/OUT SUB        | VEP80573A                  | VEP80573A                  | VEP80573A                  |
| 18. AUDIO VR                | VEP84102A                  | VEP84101C                  | VEP84101B                  |
| 19. AUTO OFF LED            | VEP00E08C                  | VEP00E08C                  | VEP00E08C                  |
| 20. CASSETTE CARRIAGE LAMP  | VEP00E72A                  | VEP00E72A                  | VEP00E72A                  |
| 21. CASSETTE DETECT         | VEP00E30A                  | VEP00E30A                  | VEP00E30A                  |
| 22. EJECT INTERFACE         | VEP80422B                  | VEP80422B                  | VEP80422B                  |
| 23. EJECT SW                | VEP80232A                  | VEP80232A                  | VEP80232A                  |
| 24. FRONT INTERFACE         | VEP80631D                  | VEP80631B                  | VEP80631C                  |
| 25. FRONT LOADING           | VEP80440A                  | VEP80440A                  | VEP80440A                  |
| 26. FRONT MODE SELECT       | VEP80559A                  | VEP80559D                  | VEP80559C                  |
| 27. FRONT PANEL A           | VEP86107B                  | VEP86086A                  | VEP86086A                  |
| 28. FRONT PANEL B           | VEP86108D                  | VEP86076F                  | VEP86076F                  |
| 29. FRONT PANEL C           | -----                      | -----                      | -----                      |
| 30. FRONT SW VR             | VEP80552A                  | VEP80552A                  | VEP80552A                  |
| 31. HEADPHONE VR            | VEP80616A                  | VEP80616A                  | VEP80616A                  |
| 32. LOADING PHOTO           | VEP00E04B                  | VEP00E04B                  | VEP00E04B                  |
| 33. MECHA INTERFACE CIRCUIT | VEP80550B                  | VEP80550B                  | VEP80550B                  |
| 34. METER CHANGE SW         | VEP80083B                  | -----                      | -----                      |
| 35. METER LAMP              | VEP80333C                  | VEP80333B                  | VEP80333B                  |
| 36. PICTURE IN PICTURE      | VEP83170B                  | -----                      | -----                      |
| 37. POWER FILTER            | VEP81058A                  | VEP81058A                  | VEP81058A                  |
| 38. POWER SUPPLY UNIT       | VYK3637                    | VYK3637                    | VYK3637                    |
| 39. RA & HA                 | VEP85015D                  | VEP85015F                  | VEP85015E                  |
| 40. TR SENSOR (1)           | VEP00E27C                  | VEP00E27C                  | VEP00E27C                  |
| 41. TR SENSOR (2)           | VEP00E28C                  | VEP00E28C                  | VEP00E28C                  |
| 42. UNLOADING PHOTO         | VEP00E25C                  | VEP00E25C                  | VEP00E25C                  |
| 43. VIDEO/CH4 METER SW      | -----                      | -----                      | -----                      |
| 44. VIDEO IN/OUT            | VEP83174C                  | VEP83174B                  | VEP83174B                  |
| 45. VIDEO VR                | VEP80621A                  | -----                      | -----                      |
| 46. YC IN/OUT               | VEP80574A                  | VEP80574A                  | VEP80574A                  |
| 47. 9P REMOTE               | VEP80551A                  | VEP80551A                  | VEP80551A                  |
| 48. 50P REMOTE              | -----                      | -----                      | -----                      |

## P.C.BOARDS LIST (TREE STYLE)

| P.C.BOARD NAME              | VEP NUMBER<br>(AU-65 PAL) | VEP NUMBER<br>(AU-63 PAL) | VEP NUMBER<br>(AU-62 PAL) |
|-----------------------------|---------------------------|---------------------------|---------------------------|
| 1. W0 MOTHER 1              | VEP80548A                 | VEP80548D                 | VEP80548C                 |
| 2. W1 TBC & SYNC GEN        | VEP88062C                 | VEP88062C                 | VEP88062C                 |
| 3. W1 TBC SUB               | -----                     | -----                     | -----                     |
| 4. W2 ENCODER               | VEP88063C                 | VEP88063C                 | VEP88063C                 |
| 5. W2 SUB                   | VEP80632A                 | VEP80632A                 | VEP80632A                 |
| 6. W3 MOD & DEMOD           | VEP83098E                 | VEP83098F                 | VEP83098G                 |
| 7. W4 DEC & CTCM            | VEP83099B                 | -----                     | -----                     |
| 8. W5 SERVO                 | VEP82061E                 | VEP82061F                 | VEP82061E                 |
| 9. W6 AUDIO                 | VEP84095D                 | VEP84095E                 | VEP84095E                 |
| 10. D0 MOTHER 2             | VEP80549A                 | VEP80549B                 | VEP80549A                 |
| 11. B1 SYSTEM CONTROL       | VEP86088E                 | VEP86088F                 | VEP86088M                 |
| 12. B2 TCG/TCR              | -----                     | -----                     | -----                     |
| 13. AT H.A                  | -----                     | -----                     | -----                     |
| 14. AT POWER                | -----                     | VEP82062A                 | -----                     |
| 15. AUDIO INPUT SW          | -----                     | -----                     | -----                     |
| 16. AUDIO IN/OUT            | VEP84094A                 | VEP84094C                 | VEP84094C                 |
| 17. AUDIO IN/OUT SUB        | VEP80573A                 | VEP80573A                 | VEP80573A                 |
| 18. AUDIO VR                | VEP84101A                 | VEP84101C                 | VEP84101B                 |
| 19. AUTO OFF LED            | VEP00E08C                 | VEP00E08C                 | VEP00E08C                 |
| 20. CASSETTE CARRIAGE LAMP  | VEP00E72A                 | VEP00E72A                 | VEP00E72A                 |
| 21. CASSETTE DETECT         | VEP00E30A                 | VEP00E30A                 | VEP00E30A                 |
| 22. EJECT INTERFACE         | VEP80422B                 | VEP80422B                 | VEP80422B                 |
| 23. EJECT SW                | VEP80232A                 | VEP80232A                 | VEP80232A                 |
| 24. FRONT INTERFACE         | VEP80631A                 | VEP80631B                 | VEP80631C                 |
| 25. FRONT LOADING           | VEP80440A                 | VEP80440A                 | VEP80440A                 |
| 26. FRONT MODE SELECT       | VEP80559A                 | VEP80559D                 | VEP80559C                 |
| 27. FRONT PANEL A           | VEP86050D                 | VEP86086A                 | VEP86086A                 |
| 28. FRONT PANEL B           | VEP66022A                 | VEP86076D                 | VEP86076D                 |
| 29. FRONT PANEL C           | VEP86048G                 | -----                     | -----                     |
| 30. FRONT SW VR             | VEP80552A                 | VEP80552A                 | VEP80552A                 |
| 31. HEADPHONE VR            | VEP80616A                 | VEP80616A                 | VEP80616A                 |
| 32. LOADING PHOTO           | VEP00E04B                 | VEP00E04B                 | VEP00E04B                 |
| 33. MECHA INTERFACE CIRCUIT | VEP80550A                 | VEP80550A                 | VEP80550A                 |
| 34. METER CHANGE SW         | -----                     | -----                     | -----                     |
| 35. METER LAMP              | VEP80333B                 | VEP80333B                 | VEP80333B                 |
| 36. PICTURE IN PICTURE      | -----                     | -----                     | -----                     |
| 37. POWER FILTER            | VEP81058A                 | VEP81058A                 | VEP81058A                 |
| 38. POWER SUPPLY UNIT       | VYK3637                   | VYK3637                   | VYK3637                   |
| 39. RA & HA                 | VEP85015D                 | VEP85015F                 | VEP85015E                 |
| 40. TR SENSOR (1)           | VEP00E27C                 | VEP00E27C                 | VEP00E27C                 |
| 41. TR SENSOR (2)           | VEP00E28C                 | VEP00E28C                 | VEP00E28C                 |
| 42. UNLOADING PHOTO         | VEP00E25C                 | VEP00E25C                 | VEP00E25C                 |
| 43. VIDEO/CH4 METER SW      | -----                     | -----                     | -----                     |
| 44. VIDEO IN/OUT            | VEP83097C                 | VEP83097B                 | VEP83097B                 |
| 45. VIDEO VR                | -----                     | -----                     | -----                     |
| 46. YC IN/OUT               | VEP80574A                 | VEP80574A                 | VEP80574A                 |
| 47. 9P REMOTE               | VEP80551A                 | VEP80551A                 | VEP80551A                 |
| 48. 50P REMOTE              | -----                     | -----                     | -----                     |

# ELECTRICAL REPLACEMENT PARTS LIST

| Ref.No. | Part No.  | Part Name & Description | Pcs | Remarks            | Ref.No. | Part No.  | Part Name & Description | Pcs | Remarks            |
|---------|-----------|-------------------------|-----|--------------------|---------|-----------|-------------------------|-----|--------------------|
|         | VEP80765A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |         |           |                         |     |                    |
|         |           | W0 MOTHER 1             |     |                    |         | VEP84102A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |
|         | VEP80765C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H         |         |           | AUDIO VR                |     |                    |
|         |           | W0 MOTHER 1             |     |                    |         | VEP84101C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H         |
|         | VEP80765B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62H         |         |           | AUDIO VR                |     |                    |
|         |           | W0 MOTHER 1             |     |                    |         | VEP84101B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62H         |
|         |           |                         |     |                    |         |           | AUDIO VR                |     |                    |
|         | VEP8091C  | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |         |           |                         |     |                    |
|         |           | W1 TBC & SYNCHEN        |     | AU-62H             |         | VEP00E08C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |
|         | VEP80681A | P.C. BOARD W/COMPONENT  | 1   | ON VEP8091C        |         |           | AUTO OFF LED            |     | AU-62H             |
|         |           | W1 TBC SUB              |     |                    |         |           |                         |     |                    |
|         |           |                         |     |                    |         | VEP00E72A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |
|         | VEP8063M  | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |         |           | CASSETTE CARRIAGE LAMP  |     | AU-62H             |
|         |           | W2 ENCODER              |     |                    |         |           |                         |     |                    |
|         | VEP80632A | P.C. BOARD W/COMPONENT  | 1   | ON VEP8063M        |         | VEP00E30A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |
|         |           | W2 SUB                  |     |                    |         |           | CASSETTE DETECT         |     | AU-62H             |
|         | VEP8063W  | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H         |         |           |                         |     |                    |
|         |           | W2 ENCODER              |     |                    |         | VEP80422B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |
|         | VEP80632A | P.C. BOARD W/COMPONENT  | 1   | ON VEP8063W        |         |           | EJECT INTERFACE         |     | AU-62H             |
|         |           | W2 SUB                  |     |                    |         |           |                         |     |                    |
|         | VEP8063Q  | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62H         |         | VEP80232A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |
|         |           | W2 ENCODER              |     |                    |         |           | EJECT SW                |     | AU-62H             |
|         | VEP80632A | P.C. BOARD W/COMPONENT  | 1   | ON VEP8063Q        |         |           |                         |     |                    |
|         |           | W2 SUB                  |     |                    |         | VEP80631D | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |
|         |           |                         |     |                    |         |           | FRONT INTERFACE         |     |                    |
|         | VEP8098E  | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |         | VEP80631B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H         |
|         |           | W3 MOD & DEMOD          |     |                    |         |           | FRONT INTERFACE         |     |                    |
|         | VEP8098F  | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H         |         | VEP80631C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62H         |
|         |           | W3 MOD & DEMOD          |     |                    |         |           | FRONT INTERFACE         |     |                    |
|         | VEP8098G  | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62H         |         |           |                         |     |                    |
|         |           | W3 MOD & DEMOD          |     |                    |         | VEP80440A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |
|         |           |                         |     |                    |         |           | FRONT LEAD IN           |     | AU-62H             |
|         | VEP83173A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |         |           |                         |     |                    |
|         |           | W4 DEC & CTCM           |     |                    |         | VEP80559A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |
|         |           |                         |     |                    |         |           | FRONT MODE SELECT       |     |                    |
|         | VEP82061E | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-62H |         | VEP80559B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H         |
|         |           | W5 SERVO                |     |                    |         |           | FRONT MODE SELECT       |     |                    |
|         | VEP82061F | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H         |         | VEP80559C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62H         |
|         |           | W5 SERVO                |     |                    |         |           | FRONT MODE SELECT       |     |                    |
|         |           |                         |     |                    |         |           |                         |     |                    |
|         | VEP84095K | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |         | VEP86107B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |
|         |           | W6 AUDIO                |     |                    |         |           | FRONT PANEL A           |     |                    |
|         | VEP84095E | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H, AU-62H |         | VEP86086A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H, AU-62H |
|         |           | W6 AUDIO                |     |                    |         |           | FRONT PANEL A           |     |                    |
|         |           |                         |     |                    |         |           |                         |     |                    |
|         | VEP80549H | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |         | VEP86108D | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |
|         |           | W0 MOTHER 2             |     |                    |         |           | FRONT PANEL B           |     |                    |
|         | VEP80549K | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H         |         | VEP86076F | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H, AU-62H |
|         |           | W0 MOTHER 2             |     |                    |         |           | FRONT PANEL B           |     |                    |
|         | VEP80549J | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62H         |         |           |                         |     |                    |
|         |           | W0 MOTHER 2             |     |                    |         |           |                         |     |                    |
|         |           |                         |     |                    |         | VEP80552A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |
|         |           |                         |     |                    |         |           | FRONT SW VR             |     | AU-62H             |
|         | VEP86121D | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |         |           |                         |     |                    |
|         |           | B1 SYSTEM CONTROL       |     |                    |         | VEP80616A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |
|         | VEP86121F | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H         |         |           | HEADPHONE VR            |     | AU-62H             |
|         |           | B1 SYSTEM CONTROL       |     |                    |         |           |                         |     |                    |
|         | VEP86121E | P.C. BOARD W/COMPONENT  | 1   | FOR AU-62H         |         | VEP00E04B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |
|         |           | B1 SYSTEM CONTROL       |     |                    |         |           | LOADING PHOTO           |     | AU-62H             |
|         |           |                         |     |                    |         |           |                         |     |                    |
|         | VEP86089C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |         | VEP80550B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |
|         |           | B2 TCG/TCR              |     | AU-62H             |         |           | MECHA INTERFACE CIRCUIT |     | AU-62H             |
|         |           |                         |     |                    |         |           |                         |     |                    |
|         | VEP82062A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H         |         | VEP80083B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |
|         |           | AT POWER                |     |                    |         |           | METER CHANGE SW         |     |                    |
|         | VEP84103A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |         |           |                         |     |                    |
|         |           | AUDIO INPUT SW          |     |                    |         | VEP80333C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |
|         |           |                         |     |                    |         |           | METER LAMP              |     |                    |
|         | VEP84094G | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |         | VEP80333B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H, AU-62H |
|         |           | AUDIO IN/OUT            |     |                    |         |           | METER LAMP              |     |                    |
|         | VEP80573A | P.C. BOARD W/COMPONENT  | 1   | ON VEP84094G       |         |           |                         |     |                    |
|         |           | AUDIO IN/OUT SUB        |     |                    |         | VEP83170B | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H         |
|         | VEP84094C | P.C. BOARD W/COMPONENT  | 1   | FOR AU-63H, AU-62H |         |           | PICTURE IN PICTURE      |     |                    |
|         |           | AUDIO IN/OUT            |     |                    |         |           |                         |     |                    |
|         | VEP80573A | P.C. BOARD W/COMPONENT  | 1   | ON VEP84094C       |         | VEP81058A | P.C. BOARD W/COMPONENT  | 1   | FOR AU-65H, AU-63H |
|         |           | AUDIO IN/OUT            |     |                    |         |           | POWER FILTER            |     | AU-62H             |



[illegible]







| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|----------|--------------|-------------------------|-----|---------|
| C413     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         | C702     | VCK0036104KR | C. CAPACITOR 50V 0.1U   | 1   |         |
| C414-16  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 5   |         | C703     | ECCF1H121JC  | C. CAPACITOR 50V 120P   | 1   |         |
| C423     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         | C704     | VCK0036104KR | C. CAPACITOR 50V 0.1U   | 1   |         |
| C424     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C705     | ECCF1H121JC  | C. CAPACITOR 50V 120P   | 1   |         |
| C425     | ECQM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         | C706     | VCK0036104KR | C. CAPACITOR 50V 0.1U   | 1   |         |
| C426     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         | C707     | VCK0036104KR | C. CAPACITOR 50V 0.1U   | 1   |         |
| C427     | ECQM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         | C708     | VCK0036104KR | C. CAPACITOR 50V 0.1U   | 1   |         |
| C438     | ECUM1H681JCN | C. CAPACITOR CH 50V 680P  | 1   |         | C709     | ECCF1H151JC  | C. CAPACITOR 50V 150P   | 1   |         |
| C441     | ECQM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         | C710     | VCK0036104KR | C. CAPACITOR 50V 0.1U   | 1   |         |
| C442     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         | C711     | ECCF1H820JC  | C. CAPACITOR 50V 82P    | 1   |         |
| C443-46  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |         | C712     | ECCF1H121JC  | C. CAPACITOR 50V 120P   | 1   |         |
| C450     | ECQM1H392JF  | P. CAPACITOR 50V 3900P    | 1   |         | C713     | VCK0036104KR | C. CAPACITOR 50V 0.1U   | 1   |         |
| C452     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         | C714     | ECCF1H560JC  | C. CAPACITOR 50V 56P    | 1   |         |
| C453     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         | C715     | ECCF1H560JC  | C. CAPACITOR 50V 56P    | 1   |         |
| C454     | ECQM1H122JF  | P. CAPACITOR 50V 1200P    | 1   |         |          |              |                         |     |         |
| C455     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |          |              |                         |     |         |
| C456     | ECFA1CN100S  | E. CAPACITOR 16V 10U      | 1   |         |          |              |                         |     |         |
| C457     | ECUM1H561JCN | C. CAPACITOR CH 50V 560P  | 1   |         | CN1      | VJP2983A020  | CONNECTOR (MALE)        | 1   |         |
| C458     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | CN1      | VJS2983A020  | CONNECTOR (FEMALE)      | 1   |         |
| C459     | ECFA1AU220   | E. CAPACITOR 10V 22U      | 1   |         | CN2      | VJP2983A010  | CONNECTOR (MALE)        | 1   |         |
| C460, 61 | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 2   |         | CN2      | VJS2983A010  | CONNECTOR (FEMALE)      | 1   |         |
| C462     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | CN3      | VJP2983A010  | CONNECTOR (MALE)        | 1   |         |
| C463     | ECFA1AU220   | E. CAPACITOR 10V 22U      | 1   |         | CN3      | VJS2983A010  | CONNECTOR (FEMALE)      | 1   |         |
| C464     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | CN4      | VJP2983A010  | CONNECTOR (MALE)        | 1   |         |
| C465     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         | CN4      | VJS2983A010  | CONNECTOR (FEMALE)      | 1   |         |
| C467     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | CN5      | VJP2983A020  | CONNECTOR (MALE)        | 1   |         |
| C468     | ECFA1AU220   | E. CAPACITOR 10V 22U      | 1   |         | CN5      | VJS2983A020  | CONNECTOR (FEMALE)      | 1   |         |
| C469, 70 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | CN6      | VJP1247T     | CONNECTOR (MALE) 7P     | 1   |         |
| C471     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |          |              |                         |     |         |
| C473     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |          |              |                         |     |         |
| C474     | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |          |              |                         |     |         |
| C475     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | D201     | MA151WA      | DIODE                   | 1   |         |
| C476     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1   |         | D202     | MA335-R      | DIODE                   | 1   |         |
| C477     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | D203     | MA151K       | DIODE                   | 1   |         |
| C478     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1   |         | D206-10  | MA151K       | DIODE                   | 5   |         |
| C479     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         | D211     | MA151MK      | DIODE                   | 1   |         |
| C480     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | D212     | MA151K       | DIODE                   | 1   |         |
| C481     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         | D402     | MA151K       | DIODE                   | 1   |         |
| C482     | ECQM1H122JF  | P. CAPACITOR 50V 1200P    | 1   |         | D404     | MA153        | DIODE                   | 1   |         |
| C483     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         | D406     | MA151K       | DIODE                   | 1   |         |
| C484     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | D407     | MA335-R      | DIODE                   | 1   |         |
| C485     | ECFA1AU220   | E. CAPACITOR 10V 22U      | 1   |         | D408-10  | MA151K       | DIODE                   | 3   |         |
| C486     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | D416, 17 | MA151K       | DIODE                   | 2   |         |
| C487     | ECFA1HUR47   | E. CAPACITOR 50V 0.47U    | 1   |         |          |              |                         |     |         |
| C488     | ECFA1HN010S  | E. CAPACITOR 50V 1U       | 1   |         |          |              |                         |     |         |
| C489     | ECFA1HUR2    | E. CAPACITOR 50V 2.2U     | 1   |         |          |              |                         |     |         |
| C490     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | IC1      | MC74HC74AF   | IC                      | 1   |         |
| C491     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         | IC1      | SN74ALS123NS | IC                      | 1   |         |
| C504     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | IC2      | MC74HC08AF   | IC                      | 1   |         |
| C514     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC2      | MC74HC161F   | IC                      | 1   |         |
| C517     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | IC3      | MC74HC00AF   | IC                      | 1   |         |
| C518-20  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |         | IC3      | MC74HC00AF   | IC                      | 1   |         |
| C521     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1   |         | IC4      | MC74HC08AF   | IC                      | 1   |         |
| C522     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC4      | SN74ALS574A  | IC                      | 1   |         |
| C523     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1   |         | IC5      | MC74HC32AF   | IC                      | 1   |         |
| C524     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC5      | SN74ALS574A  | IC                      | 1   |         |
| C525     | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         | IC6      | MC74HC74AF   | IC                      | 1   |         |
| C528     | ECFA1AU220   | E. CAPACITOR 10V 22U      | 1   |         | IC6, C7  | MC74HC74AF   | IC                      | 2   |         |
| C529     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC7      | UPD65013F101 | IC                      | 1   |         |
| C551     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC8      | V511012      | IC                      | 1   |         |
| C600-09  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 10  |         | IC9      | MC74HC574AF  | IC                      | 1   |         |
| C614, 15 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | IC9      | UPD74HC123AG | IC                      | 1   |         |
| C620     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         | IC10     | MC74HC74AF   | IC                      | 1   |         |
| C621, 22 | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 2   |         | IC11     | MC74HC00AF   | IC                      | 1   |         |
| C623, 24 | ECUM1H392KBN | C. CAPACITOR CH 50V 3900P | 2   |         | IC11     | MC74HC08AF   | IC                      | 1   |         |
| C625-36  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 12  |         | IC12     | MM74HC221AM  | IC                      | 1   |         |
| C638, 39 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 2   |         | IC12     | SN74ALS574A  | IC                      | 1   |         |
| C640     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC13     | HM63021P     | IC                      | 1   |         |
| C641     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         | IC13     | MC74HC32AF   | IC                      | 1   |         |
| C642     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         | IC14     | MC74HC74AF   | IC                      | 1   |         |
| C643     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         | IC14     | M74F374FP    | IC                      | 1   |         |
| C644     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         | IC15     | MC74HC08AF   | IC                      | 1   |         |
| C645     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         | IC15, 16 | M74F157AF    | IC                      | 2   |         |
| C700     | ECCF1H151JC  | C. CAPACITOR 50V 150P     | 1   |         | IC17     | UPD65012F475 | IC                      | 1   |         |
| C701     | VCK0036104KR | C. CAPACITOR 50V 0.1U     | 1   |         | IC18, 19 | MC74HC574AF  | IC                      | 2   |         |



| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R4      | ERJ6GEY563  | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R5      | ERJ6GEY270  | M.RESISTOR CH 1/10W 27   | 1   |         |
| R5      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R6      | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R6      | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R7      | ERJ6GEY563  | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R9      | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R11     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R11     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R12     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R13     | ERJ6GEY270  | M.RESISTOR CH 1/10W 27   | 1   |         |
| R13     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R14     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R15,16  | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R16-18  | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 3   |         |
| R19     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R19     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R20     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R21     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R21     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R22     | ERJ6GEY270  | M.RESISTOR CH 1/10W 27   | 1   |         |
| R23     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R25     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R28,29  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R30     | ERJ6GEY182  | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R31     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R34,35  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R36-40  | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 5   |         |
| R42,43  | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 2   |         |
| R44     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R47-49  | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 3   |         |
| R51,52  | ERJ6GEY472  | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R53     | ERJ6GEY223  | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R55     | ERJ6GEY472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R57     | ERJ6GEY472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R60     | ERJ6GEY152  | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R61     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R62     | ERJ6GEY182  | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R63     | ERJ6GEY472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R64     | ERJ6GEY152  | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R65     | ERJ6GEY472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R66     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R67     | ERJ6GEY152  | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R68     | ERJ6GEY472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R69     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R70-72  | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 3   |         |
| R73     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R76-78  | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 3   |         |
| R81-83  | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 3   |         |
| R86-88  | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 3   |         |
| R90,91  | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R97     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R99     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R100-15 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 16  |         |
| R116    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R117    | ERJ6GEYJ274 | M.RESISTOR CH 1/10W 270K | 1   |         |
| R118    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R132    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R134    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R152    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R201    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R202    | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R203    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R204,05 | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 2   |         |
| R206-10 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 5   |         |
| R211    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R212    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R213,14 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R215    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R216    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R217    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R218    | ERJ6GEY563  | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R219    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R220    | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         |
| R221    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R222,23 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R224    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R225    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R226    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R227    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R228    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R229    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R230    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R231    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R232    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R233    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R234,35 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R236,37 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R238    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R239    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R240    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R241    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R243    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R247    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R248    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R249    | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R251-60 | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 10  |         |
| R261    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R262-64 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 3   |         |
| R265    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R266    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R267    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R268,69 | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 2   |         |
| R270    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R272    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R273    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R274    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R275    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R276    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R277    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R278    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R279    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R280    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R281    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R282    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R283    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R284    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R285    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R288    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R289    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R290    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R291    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R292    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R293    | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R294    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R295    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R296    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R297    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R298-00 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 3   |         |
| R301    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R351    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R353    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R355-58 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 4   |         |
| R361    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R366-68 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 3   |         |
| R375    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R380    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R390-94 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 5   |         |
| R401    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R402    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R403    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R404    | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R405    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R406    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R408    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R409    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R410    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R411-17 | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 7   |         |
| R418,29 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R420    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |



| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks     |
|---------|--------------|---------------------------|-----|-------------|
|         | VEP8063M     | P.C. BOARD W/COMPONENT    |     | FOR AD-65H  |
|         |              | N2 ENCODER                |     |             |
|         | VEP80632A    | P.C. BOARD W/COMPONENT    |     | ON VEP8063M |
|         |              | N2 SUB                    |     |             |
|         |              |                           |     |             |
|         |              |                           |     |             |
|         |              |                           |     |             |
|         |              |                           |     |             |
|         |              |                           |     |             |
|         |              |                           |     |             |
|         |              | CAPACITORS                |     |             |
| C1      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C2      | ECEA1CU221   | E. CAPACITOR 16V 220U     | 1   |             |
| C3      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C4      | ECBA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |             |
| C5      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C6      | ECEA1CU221   | E. CAPACITOR 16V 220U     | 1   |             |
| C7-C9   | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |             |
| C10     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C11     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |             |
| C12,13  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |             |
| C14     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |             |
| C15     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |             |
| C16     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C17     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |             |
| C18     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C19,20  | ECEA1CU221   | E. CAPACITOR 16V 220U     | 2   |             |
| C21,22  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |             |
| C23     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |             |
| C24,25  | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 2   |             |
| C26     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |
| C27     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |             |
| C28     | ECQM1H183JF  | P. CAPACITOR 50V 0.018U   | 1   |             |
| C29     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C30     | ECEA1ENR47S  | E. CAPACITOR 25V 4.7U     | 1   |             |
| C31     | ECEA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 1   |             |
| C32     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C33     | ECBA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |             |
| C35     | ECBA0JU221   | E. CAPACITOR 6.3V 220U    | 1   |             |
| C36     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C37     | ECBA0JU221   | E. CAPACITOR 6.3V 220U    | 1   |             |
| C38-46  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 9   |             |
| C49,50  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |             |
| C51     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |             |
| C52     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |
| C53     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C54     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |             |
| C55     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |             |
| C56     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C57     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |             |
| C58     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C59     | ECBA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |             |
| C60     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |             |
| C61     | ECBA0JU221   | E. CAPACITOR 6.3V 220U    | 1   |             |
| C62     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C63     | ECBA0JU221   | E. CAPACITOR 6.3V 220U    | 1   |             |
| C64-73  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 10  |             |
| C76     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |             |
| C77     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |
| C78     | ECQM1H123JF  | P. CAPACITOR 50V 0.023U   | 1   |             |
| C79     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C80,81  | ECEA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 2   |             |
| C82,83  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |             |
| C84     | ECBA0JU470   | E. CAPACITOR 6.3V 47U     | 1   |             |
| C85,86  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |             |
| C87     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C88     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |
| C89     | ECQF1H103ZF  | C. CAPACITOR 50V 0.01U    | 1   |             |
| C113    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |             |
| C114-17 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 4   |             |
| C120    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C121    | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |             |
| C122    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |             |
| C123    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |             |
| C124    | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |             |

| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|---------|--------------|---------------------------|-----|---------|
| C125    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C126    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C127    | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
| C128    | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C129,30 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         |
| C131    | ECEA1HN010S  | E. CAPACITOR 50V 1U       | 1   |         |
| C132    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C133    | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C134    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C135    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C136    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C137    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C138    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C139-41 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C142    | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C143,44 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         |
| C145    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C146    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C147-49 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 3   |         |
| C150    | ECEA1HN010S  | E. CAPACITOR 50V 1U       | 1   |         |
| C151    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C152    | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C154    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C155    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C156    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C157    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C158    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C159,60 | ECUM1H821JCN | C. CAPACITOR CH 50V 820P  | 2   |         |
| C161,62 | ECEA1AN470S  | E. CAPACITOR 10V 47U      | 2   |         |
| C163    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C164    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C165    | ECEA1AN470S  | E. CAPACITOR 10V 47U      | 1   |         |
| C166    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C200    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C201    | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C202,03 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C204    | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C205    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C206    | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |         |
| C207    | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C209    | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C210    | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C211    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C212    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C213    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C214    | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C215    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C219    | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C220    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C223    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C224    | ECUM1H030JCN | C. CAPACITOR CH 50V 3P    | 1   |         |
| C226    | ECEA1HN47S   | E. CAPACITOR 50V 0.47U    | 1   |         |
| C227,28 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C229    | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C230,31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C232    | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C233    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C235    | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |         |
| C236    | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C238    | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C239    | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C240    | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C241    | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C242    | ECEA1HN47S   | E. CAPACITOR 50V 0.47U    | 1   |         |
| C243    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C244    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C245    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C247    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C248    | ECEA0JU470   | E. CAPACITOR 6.3V 47U     | 1   |         |
| C249    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C257,58 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C260    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C261    | ECUM1H030JCN | C. CAPACITOR CH 50V 3P    | 1   |         |
| C263    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C264    | ECEA1HN47S   | E. CAPACITOR 50V 0.47U    | 1   |         |

| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|
| C266, 67 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C268     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C269     | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C270, 71 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C272     | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C273     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C275     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |         |
| C276     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C278     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C279     | ECUM1H580JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C280     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C281     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C282     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C283     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C284     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C291     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C292     | ECFA1CU221   | E. CAPACITOR 16V 220U     | 1   |         |
| C293     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C294     | ECFA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C297, 98 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C299     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C300     | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C301     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C303     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
| C304     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C305, 06 | ECFA1ENR47S  | E. CAPACITOR 50V 0.47U    | 2   |         |
| C307, 08 | ECQMLH104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C311     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C312, 13 | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 2   |         |
| C314     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C501, 02 | ECFA1CU101   | E. CAPACITOR 16V 100U     | 2   |         |
| C503     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C504     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C505     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C506     | ECFA1ENR47S  | E. CAPACITOR 50V 0.47U    | 1   |         |
| C507, 08 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C510     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C517     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C518     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C519, 20 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C521     | ECFA0JU470   | E. CAPACITOR 6.3V 47U     | 1   |         |
| C522     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C523     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         |
| C524     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C525     | ECFA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C526     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C527, 28 | ECFA1CU101   | E. CAPACITOR 16V 100U     | 2   |         |
| C531     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C532     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C533     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C534, 35 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C536, 37 | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 2   |         |
| C538, 39 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C540     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C541     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C542     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C543     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |         |
| C546     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C547     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C548     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C549     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C550     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C551     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P  | 1   |         |
| C552     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C553     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C554     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C555     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C559     | ECFA0JU470   | E. CAPACITOR 6.3V 47U     | 1   |         |
| C560     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C561     | ECFA0JN330S  | E. CAPACITOR 6.3V 33U     | 1   |         |
| C562     | ECUM1H580JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C563     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
| C564     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C565     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P  | 1   |         |
| C566     | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |

| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|
| C567-69  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C570     | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C571     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C572     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C573     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C574, 75 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 2   |         |
| C576, 77 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C578     | ECFA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C579     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C580, 81 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 2   |         |
| C582     | ECFA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C583     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C584     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C585     | ECUM1H520JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C586     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C587, 88 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C589     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
| C590     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C591     | ECUM1H520JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C592-97  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C598     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C599, 00 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C601     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C602     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C603     | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C604     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C605     | ECFA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C606     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C607     | ECFA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C608     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C609     | ECFA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C610     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C611     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C612     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C615-18  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 4   |         |
| C619     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C620     | ECQMLH104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C621     | ECFA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C622     | ECQMLH104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C623     | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C624     | ECQMLH104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C625     | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C626     | ECQMLH104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C627, 28 | ECUM1H122JCN | C. CAPACITOR CH 50V 1200P | 2   |         |
| C629     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C630, 31 | ECUM1H122JCN | C. CAPACITOR CH 50V 1200P | 2   |         |
| C632     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C635     | ECQMLH120JCN | C. CAPACITOR 50V 12P      | 1   |         |
| C600     | ECUM1H122JCN | C. CAPACITOR CH 50V 1200P | 1   |         |
| C601     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C602     | ECQMLH122JF  | P. CAPACITOR 50V 1200P    | 1   |         |
| C603     | ECQMLH584JZ  | P. CAPACITOR 50V 0.68U    | 1   |         |
| C604, 06 | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 2   |         |
| C608     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C609, 10 | ECUM1H122JCN | C. CAPACITOR CH 50V 1200P | 2   |         |
| C612     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C613     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C614-22  | ECUM1H122JCN | C. CAPACITOR CH 50V 1200P | 9   |         |
| C623-25  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |         |
| C627     | ECFA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C628, 29 | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 2   |         |
| C630     | ECUM1H520JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C631     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C632     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C634     | ECFA1CN100S  | E. CAPACITOR 16V 10U      | 1   |         |
| C635     | ECFA1ENR47S  | E. CAPACITOR 25V 4.7U     | 1   |         |
| C636     | ECFA0JN330S  | E. CAPACITOR 6.3V 33U     | 1   |         |
| C637     | ECFA1ENR47S  | E. CAPACITOR 25V 4.7U     | 1   |         |
| C638     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C641     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C642     | ECFA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C643, 44 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C645     | ECFA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         |
| C646, 47 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C648     | ECFA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         |



| Ref.No.  | Part No.     | Part Name & Description  | Pcs | Remarks |
|----------|--------------|--------------------------|-----|---------|
| CB49     | ECUMH1030KN  | C.CAPACITOR CH 50V 0.01U | 1   |         |
| CB50     | ECPA0J101    | E.CAPACITOR 6.3V 100U    | 1   |         |
| CB51     | ECUMH1020JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
| CB52     | ECUMH1030KN  | C.CAPACITOR CH 50V 0.01U | 1   |         |
| CB53     | ECUMH122JN   | C.CAPACITOR CH 50V 1200P | 1   |         |
| CB54     | ECQ81H272JF  | P.CAPACITOR 50V 2700P    | 1   |         |
| CB55,56  | ECDF1H331JC  | C.CAPACITOR 50V 330P     | 2   |         |
| CB57     | ECDF1H330JC  | C.CAPACITOR 50V 33P      | 1   |         |
| C1001    | ECEA1R0010   | E.CAPACITOR 50V 1U       | 1   |         |
| C1003,04 | ECEA1CN100S  | E.CAPACITOR 16V 10U      | 2   |         |
| C1005    | ECUMH221JCN  | C.CAPACITOR CH 50V 220P  | 1   |         |
| C1006    | ECUMH470JCN  | C.CAPACITOR CH 50V 47P   | 1   |         |
|          |              |                          |     |         |
| D1       | 1S251        | DIODE                    | 1   |         |
| D2       | MA153        | DIODE                    | 1   |         |
| D4       | MA153        | DIODE                    | 1   |         |
| D8       | MA151WK      | DIODE                    | 1   |         |
| D11      | MA151WK      | DIODE                    | 1   |         |
| D200,01  | RD4.7EB2     | ZENER 4.7V               | 2   |         |
| D203,04  | MA151K       | DIODE                    | 2   |         |
| D210     | MA151K       | DIODE                    | 1   |         |
| D501     | RD3.6EB      | ZENER 3.6V               | 1   |         |
| D508     | RD4.7EB2     | ZENER 4.7V               | 1   |         |
| D510,11  | MA335-R      | DIODE                    | 2   |         |
| D512     | MA153        | DIODE                    | 1   |         |
| D514     | MA151K       | DIODE                    | 1   |         |
| D800     | MA704        | DIODE                    | 1   |         |
| D801     | MA153        | DIODE                    | 1   |         |
| D802     | MA151K       | DIODE                    | 1   |         |
| D803     | MA165TA      | DIODE                    | 1   |         |
|          |              |                          |     |         |
| FL1      | VLFO650      | FILTER                   | 1   |         |
| FL3      | VLFO754      | FILTER                   | 1   |         |
| FL200    | VLFO712      | FILTER                   | 1   |         |
| FL201,02 | VLFO753      | FILTER                   | 2   |         |
|          |              |                          |     |         |
| IC1      | AN78N09      | IC                       | 1   |         |
| IC1      | MC10107L     | IC                       | 1   |         |
| IC2      | AN79N09      | IC                       | 1   |         |
| IC3      | MC74HC4053F  | IC                       | 1   |         |
| IC4-C6   | TL082CPS     | IC                       | 3   |         |
| IC7      | HA19211NVT   | IC                       | 1   |         |
| IC8      | MC74HC574AF  | IC                       | 1   |         |
| IC9      | TL082CPS     | IC                       | 1   |         |
| IC10-12  | TL082CPS     | IC                       | 3   |         |
| IC13     | HA19211NVT   | IC                       | 1   |         |
| IC14     | MC74HC574AF  | IC                       | 1   |         |
| IC15     | AN78N09      | IC                       | 1   |         |
| IC16     | AN79N09      | IC                       | 1   |         |
| IC17     | AN79L05      | IC                       | 1   |         |
| IC18,19  | AN78N05      | IC                       | 2   |         |
| IC26,27  | AN91A12S     | IC                       | 2   |         |
| IC28     | MC74HC08AF   | IC                       | 1   |         |
| IC29     | SN74LS123NS  | IC                       | 1   |         |
| IC30     | NE521D       | IC                       | 1   |         |
| IC32     | AN78N05      | IC                       | 1   |         |
| IC33     | AN79N05      | IC                       | 1   |         |
| IC200    | AN78N09      | IC                       | 1   |         |
| IC201    | AN79N09      | IC                       | 1   |         |
| IC202    | AN78N09      | IC                       | 1   |         |
| IC203    | AN79N09      | IC                       | 1   |         |
| IC204    | AN78N09      | IC                       | 1   |         |
| IC205    | AN79N09      | IC                       | 1   |         |
| IC206    | TL082CPS     | IC                       | 1   |         |
| IC207    | CA3054       | IC                       | 1   |         |
| IC208-10 | TL082CPS     | IC                       | 3   |         |
| IC211    | AN78L05      | IC                       | 1   |         |
| IC215    | TL082CPS     | IC                       | 1   |         |
| IC216    | AN79L09      | IC                       | 1   |         |

| Ref.No.  | Part No.     | Part Name & Description | Pcs     | Remarks |
|----------|--------------|-------------------------|---------|---------|
| IC501    | TL082CPS     | IC                      | 1       |         |
| IC502,03 | CA3054       | IC                      | 2       |         |
| IC504,05 | NJM1496M     | IC                      | 2       |         |
| IC506    | 10116D       | IC                      | 1       |         |
| IC507    | MC74HC04AF   | IC                      | 1       |         |
| IC508    | NJM1496M     | IC                      | 1       |         |
| IC509    | MC74HC00AF   | IC                      | 1       |         |
| IC510    | MC74HC74AF   | IC                      | 1       |         |
| IC511    | SN74LS123NS  | IC                      | 1       |         |
| IC512    | 10116D       | IC                      | 1       |         |
| IC513    | MC74HC00AF   | IC                      | 1       |         |
| IC514    | MC74HC74AF   | IC                      | 1       |         |
| IC517    | AN78N09      | IC                      | 1       |         |
| IC518    | AN79N09      | IC                      | 1       |         |
| IC519    | AN78N05      | IC                      | 1       |         |
| IC520    | AN79N05      | IC                      | 1       |         |
| IC521    | AN78N09      | IC                      | 1       |         |
| IC522    | AN79N09      | IC                      | 1       |         |
| IC523    | MC74HC04AF   | IC                      | 1       |         |
| IC800    | NE521D       | IC                      | 1       |         |
| IC801    | MC74HC126AF  | IC                      | 1       |         |
| IC802,03 | MC10125L     | IC                      | 2       |         |
| IC804    | MN53010VYD   | IC                      | 1       |         |
| IC805    | UPC311G      | IC                      | 1       |         |
| IC806    | MC74HC126AF  | IC                      | 1       |         |
| IC807-14 | TL082CPS     | IC                      | 8       |         |
| IC815-17 | MC74HC4053F  | IC                      | 3       |         |
| IC818    | AN78N09      | IC                      | 1       |         |
| IC819    | AN79N09      | IC                      | 1       |         |
| IC820    | AN78N05      | IC                      | 1       |         |
| IC821    | AN79N05      | IC                      | 1       |         |
|          |              |                         |         |         |
| L1-L3    | VLFO017      | COIL                    | 3       |         |
| L5       | VLQEL05S821J | COIL 820UH              | 1       |         |
| L6-L9    | VLFO017      | COIL                    | 4       |         |
| L10      | VLQEL05S221J | COIL 220UH              | 1       |         |
| L12      | VLQEL05S6R6J | COIL 5.6UH              | 1       |         |
| L13      | VLQEL05S390J | COIL 39UH               | 1       |         |
| L14      | VLQEL05S100J | COIL 10UH               | 1       |         |
| L15      | VLQEL05S5R6J | COIL 5.6UH              | 1       |         |
| L17      | VLQEL05S5R6J | COIL 5.6UH              | 1       |         |
| L18      | VLQEL05S390J | COIL 39UH               | 1       |         |
| L19      | VLQEL05S100J | COIL 10UH               | 1       |         |
| L20      | VLQEL05S5R6J | COIL 5.6UH              | 1       |         |
| L200     | VLQEL05S6R8J | COIL 6.8UH              | 1       |         |
| L201     | VLQEL05S151J | COIL 150UH              | 1       |         |
| L203     | VLQEL05S151J | COIL 150UH              | 1       |         |
| L205,06  | VLFO017      | COIL                    | 2       |         |
| L208,09  | VLQEL05S6R8J | COIL 6.8UH              | 2       |         |
| L210     | VLQEL05S101J | COIL 100UH              | 1       |         |
| L211,12  | VLQEL05S6R8J | COIL 6.8UH              | 2       |         |
| L501,02  | VLQEL05S101K | COIL 100UH              | 2       |         |
| L503     | VLQEL05S6R8J | COIL 6.8UH              | 1       |         |
| L505     | VLQEL05S101K | COIL 100UH              | 1       |         |
| L506     | VLQEL05S6R8J | COIL 6.8UH              | 1       |         |
| L507,08  | VLQEL05S101K | COIL 100UH              | 2       |         |
| L511     | VLQEL05S150J | COIL 15UH               | 1       |         |
| L512     | VLQEL05S5R6J | COIL 5.6UH              | 1       |         |
| L513     | VLQEL05S6R8J | COIL 6.8UH              | 1       |         |
| L514     | VLQEL05S180J | COIL 18UH               | 1       |         |
| L515     | VLQEL05S560J | COIL 56UH               | 1       |         |
| L518,19  | VLQEL05S101K | COIL 100UH              | 2       |         |
| L520,21  | VLQEL05S470J | COIL 47UH               | 2       |         |
| L522,23  | VLFO017      | COIL                    | 2       |         |
| L801     | VLQEL05S8R2J | COIL 8.2UH              | 1       |         |
|          |              |                         |         |         |
| Q1       | 2SD601-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q2       | 2SB709-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q3       | 2SD601-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q4,Q5    | 2SB709-R     | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q6,Q7    | 2SC2404-C    | TRANSISTOR CHIP         | 2 (Q,D) |         |

| Ref.No. | Part No.  | Part Name & Description | Pcs | Remarks | Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|-----------|-------------------------|-----|---------|---------|--------------|--------------------------|-----|---------|
| Q8      | 2SA1022-B | TRANSISTOR CHIP         | 1   | (B,C)   | Q523    | 2SD601-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q9      | 2SC2295-B | TRANSISTOR CHIP         | 1   | (B,C)   | Q524,25 | 2SB709-R     | TRANSISTOR CHIP          | 2   | (Q,R)   |
| Q10     | 2SA1022-B | TRANSISTOR CHIP         | 1   | (B,C)   | Q526,27 | 2SC2295-B    | TRANSISTOR CHIP          | 2   | (B,C)   |
| Q11     | 2SK374-R  | TRANSISTOR              | 1   | (Q,R)   | Q528    | 2SD601-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q12     | 2SB709-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | Q532    | 2SB709-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q13     | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | Q533-37 | 2SD601-R     | TRANSISTOR CHIP          | 5   | (Q,R)   |
| Q14     | 2SB709-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | Q538    | 2SB709-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q15     | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | Q539    | 2SD601-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q16     | 2SB709-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | Q540    | 2SB709-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q17,18  | 2SC2404-C | TRANSISTOR CHIP         | 2   | (C,D)   | Q541    | 2SD601-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q19     | 2SA1022-B | TRANSISTOR CHIP         | 1   | (B,C)   | Q542    | 2SB709-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q20     | 2SC2295-B | TRANSISTOR CHIP         | 1   | (B,C)   | Q544    | 2SD601-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q21     | 2SA1022-B | TRANSISTOR CHIP         | 1   | (B,C)   | Q545-52 | 2SD601-R     | TRANSISTOR CHIP          | 8   | (Q,R)   |
| Q22     | 2SK374-R  | TRANSISTOR              | 1   | (Q,R)   | Q800    | 2SC2295-B    | TRANSISTOR CHIP          | 1   | (B,C)   |
| Q23     | 2SB709-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | Q801    | 2SD601-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q24     | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | Q802    | 2SB709-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q25     | 2SA1022-B | TRANSISTOR CHIP         | 1   | (B,C)   | Q803    | 2SC2295-B    | TRANSISTOR CHIP          | 1   | (B,C)   |
| Q26-28  | 2SD601-R  | TRANSISTOR CHIP         | 3   | (Q,R)   | Q804    | 2SB709-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q200    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | Q805    | 2SC2295-B    | TRANSISTOR CHIP          | 1   | (B,C)   |
| Q201,02 | 2SB709-R  | TRANSISTOR CHIP         | 2   | (Q,R)   | Q807    | 2SD601-R     | TRANSISTOR CHIP          | 1   | (Q,R)   |
| Q203,04 | 2SD601-R  | TRANSISTOR CHIP         | 2   | (Q,R)   | Q808-15 | 2SC2295-B    | TRANSISTOR CHIP          | 8   | (B,C)   |
| Q205,06 | 2SC2404-C | TRANSISTOR CHIP         | 2   | (C,D)   | Q816,17 | 2SB709-R     | TRANSISTOR CHIP          | 2   | (Q,R)   |
| Q207    | 2SA1022-B | TRANSISTOR CHIP         | 1   | (B,C)   | Q818,19 | 2SC2295-B    | TRANSISTOR CHIP          | 2   | (B,C)   |
| Q208    | 2SC2295-B | TRANSISTOR CHIP         | 1   | (B,C)   | Q826    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| Q209    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | Q833    | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| Q210    | 2SK198    | TRANSISTOR              | 1   | (Q,R)   |         |              |                          |     |         |
| Q211-15 | 2SD601-R  | TRANSISTOR CHIP         | 5   | (Q,R)   |         |              | RESISTORS                |     |         |
| Q219    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R1      | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q220,21 | 2SB709-R  | TRANSISTOR CHIP         | 2   | (Q,R)   | R2,R3   | ERJ6GEYG220  | M.RESISTOR CH 1/10W 22   | 2   |         |
| Q222    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R4,R5   | ERJ6GEYG152  | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| Q223,24 | 2SC2404-C | TRANSISTOR CHIP         | 2   | (C,D)   | R6,R7   | VRE0034E561  | M.RESISTOR CH 1/10W 560  | 2   |         |
| Q225    | 2SA1022-B | TRANSISTOR CHIP         | 1   | (B,C)   | R8      | ERJ6GEYG150  | M.RESISTOR CH 1/10W 15   | 1   |         |
| Q226    | 2SC2295-B | TRANSISTOR CHIP         | 1   | (B,C)   | R9      | ERJ6GEYG473  | M.RESISTOR CH 1/10W 47K  | 1   |         |
| Q227    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R10     | VRE0034E301  | M.RESISTOR CH 1/10W 300  | 1   |         |
| Q229    | 2SB709-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R11     | ERJ6GEYG220  | M.RESISTOR CH 1/10W 22   | 1   |         |
| Q230    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R12     | ERJ6GEYG122  | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| Q232,33 | 2SB709-R  | TRANSISTOR CHIP         | 2   | (Q,R)   | R13     | VRE0034E221  | M.RESISTOR CH 1/10W 220  | 1   |         |
| Q234    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R14     | VRE0034E121  | M.RESISTOR CH 1/10W 120  | 1   |         |
| Q235,36 | 2SC2404-C | TRANSISTOR CHIP         | 2   | (C,D)   | R15     | VRE0034E301  | M.RESISTOR CH 1/10W 300  | 1   |         |
| Q237    | 2SK198    | TRANSISTOR              | 1   | (Q,R)   | R16     | ERJ6GEYG683  | M.RESISTOR CH 1/10W 68K  | 1   |         |
| Q238,39 | 2SB709-R  | TRANSISTOR CHIP         | 2   | (Q,R)   | R17     | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q240    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R18     | ERJ6GEYG151  | M.RESISTOR CH 1/10W 150  | 1   |         |
| Q241,42 | 2SC2404-C | TRANSISTOR CHIP         | 2   | (C,D)   | R19     | ERJ6GEYG101  | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q243    | 2SA1022-B | TRANSISTOR CHIP         | 1   | (B,C)   | R20     | ERJ6GEYG472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| Q244    | 2SC2295-B | TRANSISTOR CHIP         | 1   | (B,C)   | R21     | ERJ6GEYG183  | M.RESISTOR CH 1/10W 18K  | 1   |         |
| Q245    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R22     | ERJ6GEYG821  | M.RESISTOR CH 1/10W 820  | 1   |         |
| Q246    | 2SK198    | TRANSISTOR              | 1   | (Q,R)   | R23,24  | ERJ6GEYG102  | M.RESISTOR CH 1/10W 1K   | 2   |         |
| Q247    | 2SB709-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R25,26  | ERJ6GEYG101  | M.RESISTOR CH 1/10W 100  | 2   |         |
| Q248,49 | 2SD601-R  | TRANSISTOR CHIP         | 2   | (Q,R)   | R27     | ERJ6GEYG122  | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| Q250,51 | 2SB709-R  | TRANSISTOR CHIP         | 2   | (Q,R)   | R28     | ERJ6GEYG471  | M.RESISTOR CH 1/10W 470  | 1   |         |
| Q252    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R29     | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q253,54 | 2SC2404-C | TRANSISTOR CHIP         | 2   | (C,D)   | R30     | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| Q255    | 2SK198    | TRANSISTOR              | 1   | (Q,R)   | R31     | VRE0034E333  | M.RESISTOR CH 1/10W 33K  | 1   |         |
| Q256    | 2SC2404-C | TRANSISTOR CHIP         | 1   | (C,D)   | R32     | VRE0034E103  | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q257    | 2SB709-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R33     | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q258    | 2SA1022-B | TRANSISTOR CHIP         | 1   | (B,C)   | R34     | ERJ6GEYG223  | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q259-63 | 2SC2295-B | TRANSISTOR CHIP         | 5   | (B,C)   | R35     | ERJ6GEYG562  | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| Q265    | 2SC2295-B | TRANSISTOR CHIP         | 1   | (B,C)   | R36,37  | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| Q266,67 | 2SD601-R  | TRANSISTOR CHIP         | 2   | (Q,R)   | R38     | ERJ6GEYG823  | M.RESISTOR CH 1/10W 82K  | 1   |         |
| Q284    | 2SK198    | TRANSISTOR              | 1   | (Q,R)   | R39     | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q285    | 2SC2295-B | TRANSISTOR CHIP         | 1   | (B,C)   | R40     | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q286,87 | 2SD601-R  | TRANSISTOR CHIP         | 2   | (Q,R)   | R41     | ERJ6GEYG563  | M.RESISTOR CH 1/10W 56K  | 1   |         |
| Q288,89 | 2SB709-R  | TRANSISTOR CHIP         | 2   | (Q,R)   | R42     | ERJ6GEYG333  | M.RESISTOR CH 1/10W 33K  | 1   |         |
| Q290    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R43     | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q291,92 | 2SB709-R  | TRANSISTOR CHIP         | 2   | (Q,R)   | R44     | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| Q501,02 | 2SC2295-B | TRANSISTOR CHIP         | 2   | (B,C)   | R45     | ERJ6GEYG273  | M.RESISTOR CH 1/10W 27K  | 1   |         |
| Q503,04 | 2SD601-R  | TRANSISTOR CHIP         | 2   | (Q,R)   | R46     | ERJ6GEYG224  | M.RESISTOR CH 1/10W 220K | 1   |         |
| Q505    | 2SK198    | TRANSISTOR              | 1   | (Q,R)   | R47     | ERJ6GEYG472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| Q506    | 2SB709-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R48     | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| Q507-09 | 2SD601-R  | TRANSISTOR CHIP         | 3   | (Q,R)   | R49     | EWJ6GEYG221  | M.RESISTOR CH 1/10W 220  | 1   |         |
| Q514-16 | 2SD601-R  | TRANSISTOR CHIP         | 3   | (Q,R)   | R50     | ERJ6GEYG391  | M.RESISTOR CH 1/10W 390  | 1   |         |
| Q518    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   | R51     | VRE0034E273  | M.RESISTOR CH 1/10W 27K  | 1   |         |
| Q519    | 2SC2295-B | TRANSISTOR CHIP         | 1   | (B,C)   |         |              |                          |     |         |
| Q520    | 2SD601-R  | TRANSISTOR CHIP         | 1   | (Q,R)   |         |              |                          |     |         |
| Q521,22 | 2SC2295-B | TRANSISTOR CHIP         | 2   | (B,C)   |         |              |                          |     |         |



| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|---------|---------|--------------|--------------------------|-----|---------|
| R52     | VRE0034E203  | M.RESISTOR CH 1/10W 20K  | 1   |         | R164.65 | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R53     | VRE0034E153  | M.RESISTOR CH 1/10W 15K  | 1   |         | R166.67 | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R54     | ERJ6GEYG220  | M.RESISTOR CH 1/10W 22   | 1   |         | R168    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R55     | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R169.70 | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 2   |         |
| R56     | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 1   |         | R171    | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R57     | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R172    | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R58.59  | ERJ6GEYG220  | M.RESISTOR CH 1/10W 22   | 2   |         | R173    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R60.61  | ERJ6GEYG152  | M.RESISTOR CH 1/10W 1.5K | 2   |         | R174    | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470  | 1   |         |
| R62.63  | VRE0034E561  | M.RESISTOR CH 1/10W 560  | 2   |         | R175    | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R64     | ERJ6GEYGL150 | M.RESISTOR CH 1/10W 15   | 1   |         | R176    | ERDS2TJ101   | C.RESISTOR 1/4W 100      | 1   |         |
| R65     | VRE0034E301  | M.RESISTOR CH 1/10W 300  | 1   |         | R179    | ERDS2TJ681   | C.RESISTOR 1/4W 680      | 1   |         |
| R66     | ERJ6GEYG220  | M.RESISTOR CH 1/10W 22   | 1   |         | R200    | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R67     | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R201    | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R68     | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         | R202.03 | VRE0034E331  | M.RESISTOR CH 1/10W 330  | 2   |         |
| R69     | ERJ6GEYG471  | M.RESISTOR CH 1/10W 470  | 1   |         | R204    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R70     | ERJ6GEYGL22  | M.RESISTOR CH 1/10W 1.2K | 1   |         | R205    | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R71     | ERJ6GEYGL01  | M.RESISTOR CH 1/10W 100  | 1   |         | R206.07 | VRE0034E102  | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R72     | ERJ6GEYG472  | M.RESISTOR CH 1/10W 4.7K | 1   |         | R209    | VRE0034E621  | M.RESISTOR CH 1/10W 620  | 1   |         |
| R73     | ERJ6GEYGL183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R210.11 | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 2   |         |
| R74     | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         | R212    | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R75     | ERJ6GEYGL01  | M.RESISTOR CH 1/10W 100  | 1   |         | R213    | ERJ6GEYG221  | M.RESISTOR CH 1/10W 220  | 1   |         |
| R76     | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         | R214    | ERJ6GEYGL681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R77     | ERJ6GEYGL01  | M.RESISTOR CH 1/10W 100  | 1   |         | R215    | ERJ6GEYGL01  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R78     | ERJ6GEYGL22  | M.RESISTOR CH 1/10W 1.2K | 1   |         | R216    | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R79     | ERJ6GEYG471  | M.RESISTOR CH 1/10W 470  | 1   |         | R217    | ERJ6GEYGL01  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R80     | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R218    | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R81     | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         | R219    | ERJ6GEYGL152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R82     | ERJ6GEYG223  | M.RESISTOR CH 1/10W 22K  | 1   |         | R220    | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R83     | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R221    | ERJ6GEYG471  | M.RESISTOR CH 1/10W 470  | 1   |         |
| R84     | ERJ6GEYG220  | M.RESISTOR CH 1/10W 22   | 1   |         | R222.23 | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R85     | ERJ6GEYGL562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R224    | ERJ6GEYGL01  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R86.87  | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 2   |         | R225    | ERJ6GEYGL683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R88     | ERJ6GEYGL823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R226    | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R89     | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 1   |         | R227    | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R90     | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R228    | ERJ6GEYGL03  | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R91     | ERJ6GEYGL563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R229    | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R92     | ERJ6GEYGL333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R230    | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R93     | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 1   |         | R231    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R94     | ERJ6GEYG273  | M.RESISTOR CH 1/10W 27K  | 1   |         | R233    | ERJ6GEYGL102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R95     | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         | R234    | ERJ6GEYGL681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R96     | ERJ6GEYG472  | M.RESISTOR CH 1/10W 4.7K | 1   |         | R235    | ERJ6GEYGL561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R97     | ERJ6GEYG224  | M.RESISTOR CH 1/10W 220K | 1   |         | R236    | ERJ6GEYGL121 | M.RESISTOR CH 1/10W 120  | 1   |         |
| R98     | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         | R237    | ERJ6GEYGL391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R99     | ERJ6GEYG221  | M.RESISTOR CH 1/10W 220  | 1   |         | R238    | ERJ6GEYG223  | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R100    | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R240    | ERJ6GEYGL182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R101    | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 1   |         | R241    | ERJ6GEYG273  | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R102    | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         | R242    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R103    | VRE0034E223  | M.RESISTOR CH 1/10W 22K  | 1   |         | R243    | ERJ6GEYGL182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R104    | VRE0034E153  | M.RESISTOR CH 1/10W 15K  | 1   |         | R244    | VRE0034E151  | M.RESISTOR CH 1/10W 150  | 1   |         |
| R105    | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         | R245    | ERJ6GEYGL152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R109.10 | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 0    | 2   |         | R246    | ERJ6GEYGL331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R133    | ERJ6GEYG224  | M.RESISTOR CH 1/10W 220K | 1   |         | R257    | VRE0034E331  | M.RESISTOR CH 1/10W 330  | 1   |         |
| R135.36 | ERJ6GEYGL22  | M.RESISTOR CH 1/10W 8.2K | 2   |         | R258-60 | VRE0034E301  | M.RESISTOR CH 1/10W 300  | 3   |         |
| R137    | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R262.63 | VRE0034E102  | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R138    | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         | R264    | VRE0034E821  | M.RESISTOR CH 1/10W 820  | 1   |         |
| R139    | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R265.66 | VRE0034E102  | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R140    | ERJ6GEYGL04  | M.RESISTOR CH 1/10W 100K | 1   |         | R268    | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 0    | 1   |         |
| R141    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         | R269    | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R142    | ERJ6GEYGL681 | M.RESISTOR CH 1/10W 680  | 1   |         | R270    | ERJ6GEYG471  | M.RESISTOR CH 1/10W 470  | 1   |         |
| R143.44 | ERJ6GEYGL301 | M.RESISTOR CH 1/10W 300  | 2   |         | R271    | ERJ6GEYGL331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R145    | ERJ6GEYG223  | M.RESISTOR CH 1/10W 22K  | 1   |         | R272    | ERJ6GEYGL152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R146    | ERJ6GEYGL105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R273    | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R148.49 | ERJ6GEYGL03  | M.RESISTOR CH 1/10W 10K  | 2   |         | R274    | ERJ6GEYGL01  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R150    | ERJ6GEYGL04  | M.RESISTOR CH 1/10W 100K | 1   |         | R275    | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R151    | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         | R276    | ERJ6GEYGL01  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R152    | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         | R277    | ERJ6GEYGL152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R153    | ERJ6GEYGL333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R278    | ERJ6GEYG471  | M.RESISTOR CH 1/10W 470  | 1   |         |
| R154    | ERJ6GEYGL04  | M.RESISTOR CH 1/10W 100K | 1   |         | R279    | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R155    | ERJ6GEYGL332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R280    | ERJ6GEYGL152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R156    | ERJ6GEYG472  | M.RESISTOR CH 1/10W 4.7K | 1   |         | R281    | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R157    | ERJ6GEYGL03  | M.RESISTOR CH 1/10W 10K  | 1   |         | R282    | ERJ6GEYGL01  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R158    | ERJ6GEYG221  | M.RESISTOR CH 1/10W 220  | 1   |         | R283    | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R159    | ERJ6GEYGL681 | M.RESISTOR CH 1/10W 680  | 1   |         | R285.86 | ERJ6GEYGL03  | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R160.61 | ERJ6GEYGL301 | M.RESISTOR CH 1/10W 300  | 1   |         | R288    | ERJ6GEYGL02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R162.63 | ERJ6GEYGL03  | M.RESISTOR CH 1/10W 10K  | 2   |         | R290    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R291    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R292    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R293    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R294    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R298    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R299    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R300_01 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R302    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R303    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R306    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R307    | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R308    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R309    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R310    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R311    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R312    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R313    | ERJ6GEYGI01 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R314    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R316-18 | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 3   |         |
| R320_21 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R322    | VRE0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R323_24 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R326    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R327    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R328    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R329    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R330    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R331    | ERJ6GEYGI02 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R332    | ERJ6GEYGI01 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R333    | ERJ6GEYGI02 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R334    | ERJ6GEYGI01 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R335    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R336    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R337    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R338_39 | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R340    | ERJ6GEYGI01 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R341    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R342    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R344_45 | ERJ6GEYGI03 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R346    | ERJ6GEYGI02 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R347    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R348    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R349    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R350    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R351    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R355    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R356    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R357_58 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R359    | VRE0034E271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R360    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R364    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R365    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R366    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R367    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R368    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R369    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R370    | ERJ6GEYGI01 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R371    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R372    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R373    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R374_75 | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R376    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R396    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R397    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R398    | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R399    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R400    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R401_02 | ERJ6GEYGI02 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R404    | ERJ6GEYGI02 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R405_06 | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 2   |         |
| R409    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R410    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R411    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R412    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R413-16 | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 4   |         |

| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|---------|
| R417    | VRE0034E391  | M.RESISTOR CH 1/10W 390  | 1   |         |
| R418    | ERJ6GEYGI151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R421    | ERJ6GEYG221  | M.RESISTOR CH 1/10W 220  | 1   |         |
| R422    | VRE0034E391  | M.RESISTOR CH 1/10W 390  | 1   |         |
| R423    | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 0    | 1   |         |
| R424    | ERJ6GEYGI01  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R425_26 | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 2   |         |
| R427    | ERJ6GEYG221  | M.RESISTOR CH 1/10W 220  | 1   |         |
| R428    | VRE0034E391  | M.RESISTOR CH 1/10W 390  | 1   |         |
| R429    | ERJ6GEYG392  | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R430    | ERJ6GEYGI02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R431    | VRE0034E821  | M.RESISTOR CH 1/10W 820  | 1   |         |
| R432    | ERJ6GEYGI02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R433    | ERJ6GEYGI152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R434    | ERJ6GEYGI123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R435    | ERJ6GEYG682  | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R436    | ERJ6GEYG822  | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R437    | ERJ6GEYGI23  | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R438    | ERJ6GEYGI152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R439    | ERJ6GEYGI02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R440    | VRE0034E821  | M.RESISTOR CH 1/10W 820  | 1   |         |
| R441    | ERJ6GEYGI02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R442    | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R443    | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 0    | 1   |         |
| R501    | ERJ6GEYGI02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R502    | ERJ6GEYG330  | M.RESISTOR CH 1/10W 33   | 1   |         |
| R503_04 | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R505_06 | ERJ6GEYGI02  | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R507    | ERJ6GEYG331  | M.RESISTOR CH 1/10W 330  | 1   |         |
| R508    | ERJ6GEYG221  | M.RESISTOR CH 1/10W 220  | 1   |         |
| R509    | ERJ6GEYGI152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R510    | ERJ6GEYG391  | M.RESISTOR CH 1/10W 390  | 1   |         |
| R511    | ERJ6GEYGI02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R512    | ERJ6GEYGI152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R513    | ERJ6GEYG683  | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R514    | ERJ6GEYGI82  | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R515    | ERJ6GEYGI01  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R516    | ERJ6GEYGI152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R517    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R518    | ERJ6GEYG273  | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R519    | ERJ6GEYG331  | M.RESISTOR CH 1/10W 330  | 1   |         |
| R520    | ERJ6GEYG681  | M.RESISTOR CH 1/10W 680  | 1   |         |
| R521    | ERJ6GEYG391  | M.RESISTOR CH 1/10W 390  | 1   |         |
| R522    | ERJ6GEYGI02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R523    | ERJ6GEYG681  | M.RESISTOR CH 1/10W 680  | 1   |         |
| R524    | ERJ6GEYG561  | M.RESISTOR CH 1/10W 560  | 1   |         |
| R525    | ERJ6GEYGI82  | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R526    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R527    | ERJ6GEYGI82  | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R528    | VRE0034E151  | M.RESISTOR CH 1/10W 150  | 1   |         |
| R529    | ERJ6GEYGI152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R530    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R542    | ERJ6GEYG821  | M.RESISTOR CH 1/10W 820  | 1   |         |
| R543    | ERJ6GEYG392  | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R544    | ERJ6GEYG561  | M.RESISTOR CH 1/10W 560  | 1   |         |
| R545    | ERJ6GEYG391  | M.RESISTOR CH 1/10W 390  | 1   |         |
| R546    | ERJ6GEYG561  | M.RESISTOR CH 1/10W 560  | 1   |         |
| R547    | ERJ6GEYG391  | M.RESISTOR CH 1/10W 390  | 1   |         |
| R549    | ERJ6GEYG273  | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R551    | ERJ6GEYG391  | M.RESISTOR CH 1/10W 390  | 1   |         |
| R552    | ERJ6GEYGI02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R553    | ERJ6GEYG681  | M.RESISTOR CH 1/10W 680  | 1   |         |
| R554    | ERJ6GEYG561  | M.RESISTOR CH 1/10W 560  | 1   |         |
| R555    | ERJ6GEYGI82  | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R556    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R557    | ERJ6GEYGI82  | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R558    | VRE0034E151  | M.RESISTOR CH 1/10W 150  | 1   |         |
| R559    | ERJ6GEYGI152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R560    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R564    | ERJ6GEYGI02  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R565    | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R566    | ERJ6GEYGI82  | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R567    | ERJ6GEYG221  | M.RESISTOR CH 1/10W 220  | 1   |         |
| R568    | ERJ6GEYG470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R569    | ERJ6GEYGI153 | M.RESISTOR CH 1/10W 15K  | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R570    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R571    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R572    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R573,74 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R576    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R577    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R578    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R579,80 | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 2   |         |
| R581,82 | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R583    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R584    | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R585    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R586    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R587    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R588    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R590    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R591    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R592    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R593,94 | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 2   |         |
| R595,96 | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R597    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R598    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R599    | ERJ6GEYG822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R600    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R601,02 | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R603    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R604    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R605    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R606    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R607    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R608    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R609,10 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R611    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R612    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R613    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R614    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R615    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R616    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R617    | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R618    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R619    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R620    | ERJ6GEYG181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R621    | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R622    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R623    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R630    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R633    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R634    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R635    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R636    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R637    | ERJ6GEYG183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R642    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R643    | ERJ6GEYG822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R644    | ERJ6GEYG133 | M.RESISTOR CH 1/10W 13K  | 1   |         |
| R645    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R646    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R647    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R648,49 | ERJ6GEYG473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R650    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R651    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R652    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R653    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R654,55 | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R656    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R657    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R658    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R659    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R660    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R661    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R662    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R663    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R664    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R665    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R666    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R667    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R668    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R669    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R670    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R671    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R672,73 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R674    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R675    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R676    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R677    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R678    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R679    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R680    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R681    | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R682    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R683    | ERJ6GEYG124 | M.RESISTOR CH 1/10W 120K | 1   |         |
| R684    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R685    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R686    | ERJ6GEYG181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R687    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R688    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R689    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R690,91 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R692,93 | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R694,95 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R696,97 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R698,99 | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R700,01 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R702    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R703    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R704-07 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 4   |         |
| R709    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R711    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R714,15 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R716    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R717    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R718    | ERJ6GEYG154 | M.RESISTOR CH 1/10W 150K | 1   |         |
| R719    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R720    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R721    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R722    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R723    | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R724    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R725    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R726    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R727    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R728    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R729    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R730    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R731    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R732    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R733    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R734    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R735    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R736    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R737    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R739,40 | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R741    | ERJ6GEYG105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R742    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R743    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R744    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R800    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R801    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R802    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R803    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R804    | ERJ6GEYG183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R805    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R806    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R807    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R808-10 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 3   |         |
| R811    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R812-14 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 3   |         |
| R815    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R816    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R817    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R819,20 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |



| Ref.No. | Part No.     | Part Name & Description    | Pcs | Remarks     |
|---------|--------------|----------------------------|-----|-------------|
|         | VEP8063N     | P.C. BOARD W/COMPONENT     |     | FOR AU-63H  |
|         |              | M2 ENCODER                 |     |             |
|         | VEP8063ZA    | P.C. BOARD W/COMPONENT     |     | ON VEP8063N |
|         |              | M2 SUB                     |     |             |
|         |              |                            |     |             |
|         |              |                            |     |             |
|         |              |                            |     |             |
|         |              |                            |     |             |
|         |              |                            |     |             |
|         |              | CAPACITORS                 |     |             |
| C1      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C2      | ECEA1CU221   | E. CAPACITOR 16V 220U      | 1   |             |
| C3      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C4      | ECBA0J101    | E. CAPACITOR 6.3V 100U     | 1   |             |
| C5      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C6      | ECEA1CU221   | E. CAPACITOR 16V 220U      | 1   |             |
| C7-C9   | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |             |
| C10     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C11     | ECBA1AU101   | E. CAPACITOR 10V 100U      | 1   |             |
| C12,13  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 2   |             |
| C14     | ECBA1AU101   | E. CAPACITOR 10V 100U      | 1   |             |
| C15     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |             |
| C16     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C17     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P    | 1   |             |
| C18     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C19,20  | ECEA1CU221   | E. CAPACITOR 16V 220U      | 2   |             |
| C21,22  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 2   |             |
| C23     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |             |
| C24,25  | ECUM1H151JCN | C. CAPACITOR CH 50V 150P   | 2   |             |
| C26     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 1   |             |
| C27     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P    | 1   |             |
| C28     | ECUM1H151JCN | C. CAPACITOR CH 50V 0.018U | 1   |             |
| C29     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C30     | ECEA1EN475   | E. CAPACITOR 25V 4.7U      | 1   |             |
| C31     | ECEA1EN2R2S  | E. CAPACITOR 50V 2.2U      | 1   |             |
| C32     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C33     | ECBA0J101    | E. CAPACITOR 6.3V 100U     | 1   |             |
| C35     | ECBA0J221    | E. CAPACITOR 6.3V 220U     | 1   |             |
| C36     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C37     | ECBA0J221    | E. CAPACITOR 6.3V 220U     | 1   |             |
| C38-46  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 9   |             |
| C49,50  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 2   |             |
| C51     | ECBA1AU101   | E. CAPACITOR 10V 100U      | 1   |             |
| C52     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 1   |             |
| C53     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C54     | ECBA1AU101   | E. CAPACITOR 10V 100U      | 1   |             |
| C55     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |             |
| C56     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C57     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P    | 1   |             |
| C58     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C59     | ECBA0J101    | E. CAPACITOR 6.3V 100U     | 1   |             |
| C60     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P    | 1   |             |
| C61     | ECBA0J221    | E. CAPACITOR 6.3V 220U     | 1   |             |
| C62     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C63     | ECBA0J221    | E. CAPACITOR 6.3V 220U     | 1   |             |
| C64-73  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 10  |             |
| C76     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P    | 1   |             |
| C77     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 1   |             |
| C78     | ECUM1H221JF  | P. CAPACITOR 50V 0.022U    | 1   |             |
| C79     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C80,81  | ECEA1EN2R2S  | E. CAPACITOR 50V 2.2U      | 2   |             |
| C82,83  | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 2   |             |
| C84     | ECBA0J470    | E. CAPACITOR 6.3V 47U      | 1   |             |
| C85,86  | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 2   |             |
| C87     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C88     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 1   |             |
| C89     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C113    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U   | 1   |             |
| C114-17 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 4   |             |
| C120    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C121    | ECBA1AU470   | E. CAPACITOR 10V 47U       | 1   |             |
| C122    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |             |
| C123    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U   | 1   |             |
| C124    | ECUM1H181JCN | C. CAPACITOR CH 50V 180P   | 1   |             |

| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|---------|--------------|---------------------------|-----|---------|
| C125    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C126    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C127    | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
| C128    | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C129,30 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         |
| C131    | ECEA1H0010S  | E. CAPACITOR 50V 1U       | 1   |         |
| C132    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C133    | ECBA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C134    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C135    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C136    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C137    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C138    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C139-41 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C142    | ECBA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C143,44 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         |
| C145    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C146    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C147-49 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 3   |         |
| C150    | ECEA1H0010S  | E. CAPACITOR 50V 1U       | 1   |         |
| C151    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C152    | ECBA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C154    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C155    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C156    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C157    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C158    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C159,60 | ECUM1H821JCN | C. CAPACITOR CH 50V 820P  | 2   |         |
| C161,62 | ECBA1AN470S  | E. CAPACITOR 10V 47U      | 2   |         |
| C163    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C164    | ECUM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C165    | ECBA1AN470S  | E. CAPACITOR 10V 47U      | 1   |         |
| C166    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C200    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C201    | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C202,03 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C204    | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C205    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C206    | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |         |
| C207    | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C209    | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C210    | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C211    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C212    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C213    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C214    | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C215    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C219    | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C220    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C223    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C224    | ECUM1H300JCN | C. CAPACITOR CH 50V 3P    | 1   |         |
| C226    | ECEA1HNR47S  | E. CAPACITOR 50V 0.47U    | 1   |         |
| C227,28 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C229    | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C230,31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C232    | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C233    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C235    | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |         |
| C236    | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C238    | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C239    | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C240    | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C241    | ECUM1H100JCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C242    | ECEA1HNR47S  | E. CAPACITOR 50V 0.47U    | 1   |         |
| C243    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C244    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C245    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C247    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C248    | ECBA0J470    | E. CAPACITOR 6.3V 47U     | 1   |         |
| C249    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C257,58 | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C260    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C261    | ECUM1H300JCN | C. CAPACITOR CH 50V 3P    | 1   |         |
| C263    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C264    | ECEA1HNR47S  | E. CAPACITOR 50V 0.47U    | 1   |         |



| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|---------|
| C266,67 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C268    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C269    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C270,71 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C272    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C273    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C275    | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 1   |         |
| C276    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
| C278    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C279    | ECUM1H580JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C280    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C281    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C282    | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |         |
| C283    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C284    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C291    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C292    | ECEA1CU221   | E.CAPACITOR 16V 220U     | 1   |         |
| C293    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C294    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C297,98 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C299    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C300    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C301    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C303    | ECUM1H271JCN | C.CAPACITOR CH 50V 270P  | 1   |         |
| C304    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C305,06 | ECEA1HNR47S  | E.CAPACITOR 50V 0.47U    | 2   |         |
| C307,08 | ECQM1H104JF  | P.CAPACITOR 50V 0.1U     | 2   |         |
| C311    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
| C312,13 | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 2   |         |
| C314    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
| C501,02 | ECEA1CU101   | E.CAPACITOR 16V 100U     | 2   |         |
| C503    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C504    | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |         |
| C505    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C506    | ECEA1HNR47S  | E.CAPACITOR 50V 0.47U    | 1   |         |
| C507,08 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C510    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C517    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C518    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C519,20 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C521    | ECEA0JU470   | E.CAPACITOR 6.3V 47U     | 1   |         |
| C522    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C523    | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         |
| C524    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C525    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C526    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C527,28 | ECEA1CU101   | E.CAPACITOR 16V 100U     | 2   |         |
| C531    | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |         |
| C532    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C533    | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |         |
| C534,35 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C536,37 | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 2   |         |
| C538,39 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C540    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C541    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
| C542    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C543    | ECUM1H120JCN | C.CAPACITOR CH 50V 12P   | 1   |         |
| C546    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C547    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
| C548    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C549    | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C550    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C551    | ECUM1H471JCN | C.CAPACITOR CH 50V 470P  | 1   |         |
| C552    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
| C553    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C554    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C555    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C559    | ECEA0JU470   | E.CAPACITOR 6.3V 47U     | 1   |         |
| C560    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C561    | ECEA0JN330S  | E.CAPACITOR 6.3V 33U     | 1   |         |
| C562    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C563    | ECUM1H271JCN | C.CAPACITOR CH 50V 270P  | 1   |         |
| C564    | ECUM1H151JCN | C.CAPACITOR CH 50V 150P  | 1   |         |
| C565    | ECUM1H471JCN | C.CAPACITOR CH 50V 470P  | 1   |         |
| C566    | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |

| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|---------|
| C567-69 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         |
| C570    | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
| C571    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C572    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C573    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C574,75 | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 2   |         |
| C576,77 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C578    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C579    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C580,81 | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 2   |         |
| C582    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C583    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C584    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C585    | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
| C586    | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C587,88 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C589    | ECUM1H271JCN | C.CAPACITOR CH 50V 270P  | 1   |         |
| C590    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C591    | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
| C592-97 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 6   |         |
| C598    | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |         |
| C599,00 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C601    | ECEA1CU101   | E.CAPACITOR 16V 100U     | 1   |         |
| C602    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C603    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C604    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C605    | ECEA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C606    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C607    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C608    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C609    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C610    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C611    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C612    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C615-18 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 4   |         |
| C619    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C620    | ECQM1H104JF  | P.CAPACITOR 50V 0.1U     | 1   |         |
| C621    | ECEA1CU100   | E.CAPACITOR 16V 10U      | 1   |         |
| C622    | ECQM1H104JF  | P.CAPACITOR 50V 0.1U     | 1   |         |
| C623    | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
| C624    | ECQM1H104JF  | P.CAPACITOR 50V 0.1U     | 1   |         |
| C625    | ECEA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
| C626    | ECQM1H104JF  | P.CAPACITOR 50V 0.1U     | 1   |         |
| C627,28 | ECUM1H122JCN | C.CAPACITOR CH 50V 1200P | 2   |         |
| C629    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C630,31 | ECUM1H122JCN | C.CAPACITOR CH 50V 1200P | 2   |         |
| C632    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C634    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
| C635    | ECCF1H120JCN | C.CAPACITOR 50V 12P      | 1   |         |
| C800    | ECUM1H122JCN | C.CAPACITOR CH 50V 1200P | 1   |         |
| C801    | ECUM1H151JCN | C.CAPACITOR CH 50V 150P  | 1   |         |
| C802    | ECQM1H122JF  | P.CAPACITOR 50V 1200P    | 1   |         |
| C803    | ECQV1H684J2  | P.CAPACITOR 50V 0.68U    | 1   |         |
| C804,06 | ECUM1H151JCN | C.CAPACITOR CH 50V 150P  | 2   |         |
| C808    | ECUM1H151JCN | C.CAPACITOR CH 50V 150P  | 1   |         |
| C809,10 | ECUM1H122JCN | C.CAPACITOR CH 50V 1200P | 2   |         |
| C812    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C813    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C814-22 | ECUM1H122JCN | C.CAPACITOR CH 50V 1200P | 9   |         |
| C823-25 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 3   |         |
| C827    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C828,29 | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 2   |         |
| C830    | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
| C831    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C832    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C834    | ECEA1CN100S  | E.CAPACITOR 16V 10U      | 1   |         |
| C835    | ECEA1EN4R7S  | E.CAPACITOR 25V 4.7U     | 1   |         |
| C836    | ECEA0JN330S  | E.CAPACITOR 6.3V 33U     | 1   |         |
| C837    | ECEA1EN4R7S  | E.CAPACITOR 25V 4.7U     | 1   |         |
| C838    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C841    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C842    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C843,44 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C845    | ECEA0JU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C846,47 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |

| Ref.No.  | Part No.     | Part Name & Description  | Pcs | Remarks |
|----------|--------------|--------------------------|-----|---------|
| C848     | BCEAOJU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C849     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C850     | BCEAOJU101   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C851     | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
| C852     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C853     | ECUM1H122JN  | C.CAPACITOR CH 50V 1200P | 1   |         |
| C854     | ECQ81H272JF  | P.CAPACITOR 50V 2700P    | 1   |         |
| C855,56  | BOCF1H331JC  | C.CAPACITOR 50V 330P     | 2   |         |
| C857     | BOCF1H330JC  | C.CAPACITOR 50V 33P      | 1   |         |
| C1001    | BCEA1H0010   | E.CAPACITOR 50V 1U       | 1   |         |
| C1003,04 | BCEA1CN1005  | E.CAPACITOR 16V 10U      | 2   |         |
| C1005    | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C1006    | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
|          |              |                          |     |         |
|          |              |                          |     |         |
| D1       | 1S251        | DIODE                    | 1   |         |
| D2       | MA153        | DIODE                    | 1   |         |
| D4       | MA153        | DIODE                    | 1   |         |
| D8       | MA151WK      | DIODE                    | 1   |         |
| D11      | MA151WK      | DIODE                    | 1   |         |
| D200,01  | RD4.7E82     | ZENER 4.7V               | 2   |         |
| D203,04  | PA151K       | DIODE                    | 2   |         |
| D210     | MA151K       | DIODE                    | 1   |         |
| D501     | RD3.6E8      | ZENER 3.6V               | 1   |         |
| D508     | RD4.7E82     | ZENER 4.7V               | 1   |         |
| D510,11  | PA335-R      | DIODE                    | 2   |         |
| D512     | MA153        | DIODE                    | 1   |         |
| D514     | PA151K       | DIODE                    | 1   |         |
| D800     | PA704        | DIODE                    | 1   |         |
| D801     | MA153        | DIODE                    | 1   |         |
| D802     | MA151K       | DIODE                    | 1   |         |
| D803     | PA1657A      | DIODE                    | 1   |         |
|          |              |                          |     |         |
|          |              |                          |     |         |
| FL1      | VLF0650      | FILTER                   | 1   |         |
| FL3      | VLF0754      | FILTER                   | 1   |         |
| FL200    | VLF0712      | FILTER                   | 1   |         |
| FL201,02 | VLF0753      | FILTER                   | 2   |         |
|          |              |                          |     |         |
| IC1      | AN78N09      | IC                       | 1   |         |
| IC1      | MC10107L     | IC                       | 1   |         |
| IC2      | AN78N09      | IC                       | 1   |         |
| IC3      | MC74HC4053P  | IC                       | 1   |         |
| IC4-06   | TL082CPS     | IC                       | 3   |         |
| IC7      | HA19211BVT   | IC                       | 1   |         |
| IC8      | MC74HC574AF  | IC                       | 1   |         |
| IC9      | TL082CPS     | IC                       | 1   |         |
| IC10-12  | TL082CPS     | IC                       | 3   |         |
| IC13     | HA19211BVT   | IC                       | 1   |         |
| IC14     | MC74HC574AF  | IC                       | 1   |         |
| IC15     | AN78N09      | IC                       | 1   |         |
| IC16     | AN78N09      | IC                       | 1   |         |
| IC17     | AN79L05      | IC                       | 1   |         |
| IC18,19  | AN78N05      | IC                       | 2   |         |
| IC26,27  | AN91A12S     | IC                       | 2   |         |
| IC28     | MC74HC08AF   | IC                       | 1   |         |
| IC29     | SN74LS123NS  | IC                       | 1   |         |
| IC30     | NES21D       | IC                       | 1   |         |
| IC32     | AN78N05      | IC                       | 1   |         |
| IC33     | AN79N05      | IC                       | 1   |         |
| IC200    | AN78N09      | IC                       | 1   |         |
| IC201    | AN78N09      | IC                       | 1   |         |
| IC202    | AN78N09      | IC                       | 1   |         |
| IC203    | AN78N09      | IC                       | 1   |         |
| IC204    | AN78N09      | IC                       | 1   |         |
| IC208    | AN78N09      | IC                       | 1   |         |
| IC206    | TL082CPS     | IC                       | 1   |         |
| IC207    | CA3054       | IC                       | 1   |         |
| IC208-10 | TL082CPS     | IC                       | 3   |         |
| IC211    | AN78L05      | IC                       | 1   |         |
| IC215    | TL082CPS     | IC                       | 1   |         |

| Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|
| IC216    | AN79L09      | IC                      | 1   |         |
| IC501    | TL082CPS     | IC                      | 1   |         |
| IC502,03 | CA3054       | IC                      | 2   |         |
| IC504,05 | NJM1496M     | IC                      | 2   |         |
| IC506    | 10116D       | IC                      | 1   |         |
| IC507    | MC74HC04AF   | IC                      | 1   |         |
| IC508    | NJM1496M     | IC                      | 1   |         |
| IC509    | MC74HC00AF   | IC                      | 1   |         |
| IC510    | MC74HC74AF   | IC                      | 1   |         |
| IC511    | SN74LS123NS  | IC                      | 1   |         |
| IC512    | 10116D       | IC                      | 1   |         |
| IC513    | MC74HC00AF   | IC                      | 1   |         |
| IC514    | MC74HC74AF   | IC                      | 1   |         |
| IC517    | AN78N09      | IC                      | 1   |         |
| IC518    | AN78N09      | IC                      | 1   |         |
| IC519    | AN78N05      | IC                      | 1   |         |
| IC520    | AN78N05      | IC                      | 1   |         |
| IC521    | AN78N09      | IC                      | 1   |         |
| IC522    | AN78N09      | IC                      | 1   |         |
| IC523    | MC74HC04AF   | IC                      | 1   |         |
| IC800    | NES21D       | IC                      | 1   |         |
| IC801    | MC74HC126AF  | IC                      | 1   |         |
| IC802,03 | MC10125L     | IC                      | 2   |         |
| IC804    | MCV53010VXD  | IC                      | 1   |         |
| IC805    | UPC311G      | IC                      | 1   |         |
| IC806    | MC74HC126AF  | IC                      | 1   |         |
| IC807-14 | TL082CPS     | IC                      | 8   |         |
| IC815-17 | MC74HC4053P  | IC                      | 3   |         |
| IC818    | AN78N09      | IC                      | 1   |         |
| IC819    | AN78N09      | IC                      | 1   |         |
| IC820    | AN78N05      | IC                      | 1   |         |
| IC821    | AN78N05      | IC                      | 1   |         |
|          |              |                         |     |         |
|          |              |                         |     |         |
| L1-L3    | VLP0017      | COIL                    | 3   |         |
| L5       | VLQEL05S821J | COIL 820UH              | 1   |         |
| L6-L9    | VLP0017      | COIL                    | 4   |         |
| L10      | VLQEL05S221J | COIL 220UH              | 1   |         |
| L12      | VLQEL05S5R6J | COIL 5.6UH              | 1   |         |
| L13      | VLQEL05S390J | COIL 39UH               | 1   |         |
| L14      | VLQEL05S100J | COIL 10UH               | 1   |         |
| L15      | VLQEL05S5R6J | COIL 5.6UH              | 1   |         |
| L17      | VLQEL05S5R6J | COIL 5.6UH              | 1   |         |
| L18      | VLQEL05S390J | COIL 39UH               | 1   |         |
| L19      | VLQEL05S100J | COIL 10UH               | 1   |         |
| L20      | VLQEL05S5R6J | COIL 5.6UH              | 1   |         |
| L200     | VLQEL05S6R8J | COIL 6.8UH              | 1   |         |
| L201     | VLQEL05S151J | COIL 150UH              | 1   |         |
| L203     | VLQEL05S151J | COIL 150UH              | 1   |         |
| L205,06  | VLP0017      | COIL                    | 2   |         |
| L208,09  | VLQEL05S6R8J | COIL 6.8UH              | 2   |         |
| L210     | VLQEL05S101J | COIL 100UH              | 1   |         |
| L211,12  | VLQEL05S6R8J | COIL 6.8UH              | 2   |         |
| L501,02  | VLQEL05S101K | COIL 100UH              | 2   |         |
| L503     | VLQEL05S6R8J | COIL 6.8UH              | 1   |         |
| L505     | VLQEL05S101K | COIL 100UH              | 1   |         |
| L506     | VLQEL05S6R8J | COIL 6.8UH              | 1   |         |
| L507,08  | VLQEL05S101K | COIL 100UH              | 2   |         |
| L511     | VLQEL05S150J | COIL 15UH               | 1   |         |
| L512     | VLQEL05S5R6J | COIL 5.6UH              | 1   |         |
| L513     | VLQEL05S6R8J | COIL 6.8UH              | 1   |         |
| L514     | VLQEL05S180J | COIL 18UH               | 1   |         |
| L515     | VLQEL05S560J | COIL 56UH               | 1   |         |
| L518,19  | VLQEL05S101K | COIL 100UH              | 2   |         |
| L520,21  | VLQEL05S470J | COIL 47UH               | 2   |         |
| L522,23  | VLP0017      | COIL                    | 2   |         |
| L800     | VLQEL06F8R2J | COIL 8.2UH              | 1   |         |
| L801     | VLQEL05S8R2J | COIL 8.2UH              | 1   |         |
|          |              |                         |     |         |
|          |              |                         |     |         |
| Q1       | 2SD601-R     | TRANSISTOR CHIP         | 1   | (Q,R)   |
| Q2       | 2SB709-R     | TRANSISTOR CHIP         | 1   | (Q,R)   |
| Q3       | 2SD601-R     | TRANSISTOR CHIP         | 1   | (Q,R)   |

| Ref.No.  | Part No.  | Part Name & Description | Pcs     | Remarks |
|----------|-----------|-------------------------|---------|---------|
| Q4, Q5   | 2SB709-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q6, Q7   | 2SC2404-C | TRANSISTOR CHIP         | 2 (C,D) |         |
| Q8       | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q9       | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q10      | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q11      | 2SK374-R  | TRANSISTOR              | 1 (Q,R) |         |
| Q12      | 2SB709-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q13      | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q14      | 2SB709-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q15      | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q16      | 2SB709-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q17, 18  | 2SC2404-C | TRANSISTOR CHIP         | 2 (C,D) |         |
| Q19      | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q20      | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q21      | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q22      | 2SK374-R  | TRANSISTOR              | 1 (Q,R) |         |
| Q23      | 2SB709-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q24      | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q25      | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q26-28   | 2SD601-R  | TRANSISTOR CHIP         | 3 (Q,R) |         |
| Q200     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q201, 02 | 2SB709-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q203, 04 | 2SD601-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q205, 06 | 2SC2404-C | TRANSISTOR CHIP         | 2 (C,D) |         |
| Q207     | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q208     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q209     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q210     | 2SK198    | TRANSISTOR              | 1 (Q,R) |         |
| Q211-15  | 2SD601-R  | TRANSISTOR CHIP         | 5 (Q,R) |         |
| Q219     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q220, 21 | 2SB709-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q222     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q223, 24 | 2SC2404-C | TRANSISTOR CHIP         | 2 (C,D) |         |
| Q225     | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q226     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q227     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q229     | 2SB709-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q230     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q232, 33 | 2SB709-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q234     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q235, 36 | 2SC2404-C | TRANSISTOR CHIP         | 2 (C,D) |         |
| Q237     | 2SK198    | TRANSISTOR              | 1 (Q,R) |         |
| Q238, 39 | 2SB709-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q240     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q241, 42 | 2SC2404-C | TRANSISTOR CHIP         | 2 (C,D) |         |
| Q243     | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q244     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q245     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q246     | 2SK198    | TRANSISTOR              | 1 (Q,R) |         |
| Q247     | 2SB709-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q248, 49 | 2SD601-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q250, 51 | 2SB709-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q252     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q253, 54 | 2SC2404-C | TRANSISTOR CHIP         | 2 (C,D) |         |
| Q255     | 2SK198    | TRANSISTOR              | 1 (Q,R) |         |
| Q256     | 2SC2404-C | TRANSISTOR CHIP         | 1 (C,D) |         |
| Q257     | 2SB709-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q258     | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q259-63  | 2SC2295-B | TRANSISTOR CHIP         | 5 (B,C) |         |
| Q265     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q266, 67 | 2SD601-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q284     | 2SK198    | TRANSISTOR              | 1 (Q,R) |         |
| Q285     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C) |         |
| Q286, 87 | 2SD601-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q288, 89 | 2SB709-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q290     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q291, 92 | 2SB709-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q501, 02 | 2SC2295-B | TRANSISTOR CHIP         | 2 (B,C) |         |
| Q503, 04 | 2SD601-R  | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q505     | 2SK198    | TRANSISTOR              | 1 (Q,R) |         |
| Q506     | 2SB709-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q507-09  | 2SD601-R  | TRANSISTOR CHIP         | 3 (Q,R) |         |
| Q514-16  | 2SD601-R  | TRANSISTOR CHIP         | 3 (Q,R) |         |
| Q518     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R) |         |
| Q519     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C) |         |

| Ref.No.   | Part No.     | Part Name & Description  | Pcs     | Remarks |
|-----------|--------------|--------------------------|---------|---------|
| Q520      | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q521, 22  | 2SC2295-B    | TRANSISTOR CHIP          | 2 (B,C) |         |
| Q523      | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q524, 25  | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q,R) |         |
| Q526, 27  | 2SC2295-B    | TRANSISTOR CHIP          | 2 (B,C) |         |
| Q528      | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q532      | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q533-37   | 2SD601-R     | TRANSISTOR CHIP          | 5 (Q,R) |         |
| Q538      | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q539      | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q540      | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q541      | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q542      | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q543      | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q544      | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q545-52   | 2SD601-R     | TRANSISTOR CHIP          | 8 (Q,R) |         |
| Q800      | 2SC2295-B    | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q801      | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q802      | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q803      | 2SC2295-B    | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q804      | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q805      | 2SC2295-B    | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q807      | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q808-15   | 2SC2295-B    | TRANSISTOR CHIP          | 8 (B,C) |         |
| Q816, 17  | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q,R) |         |
| Q818, 19  | 2SC2295-B    | TRANSISTOR CHIP          | 2 (B,C) |         |
| Q826      | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1       |         |
| Q833      | ECUM1E1042FN | C.CAPACITOR CH 25V 0.1U  | 1       |         |
| RESISTORS |              |                          |         |         |
| R1        | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R2, R3    | ERJ6GEYG220  | M.RESISTOR CH 1/10W 22   | 2       |         |
| R4, R5    | ERJ6GEYG152  | M.RESISTOR CH 1/10W 1.5K | 2       |         |
| R6, R7    | VRED034E561  | M.RESISTOR CH 1/10W 560  | 2       |         |
| R8        | ERJ6GEYG150  | M.RESISTOR CH 1/10W 15   | 1       |         |
| R9        | ERJ6GEYG473  | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R10       | VRED034E301  | M.RESISTOR CH 1/10W 300  | 1       |         |
| R11       | ERJ6GEYG220  | M.RESISTOR CH 1/10W 22   | 1       |         |
| R12       | ERJ6GEYG122  | M.RESISTOR CH 1/10W 1.2K | 1       |         |
| R13       | VRED034E221  | M.RESISTOR CH 1/10W 220  | 1       |         |
| R14       | VRED034E121  | M.RESISTOR CH 1/10W 120  | 1       |         |
| R15       | VRED034E301  | M.RESISTOR CH 1/10W 300  | 1       |         |
| R16       | ERJ6GEYG683  | M.RESISTOR CH 1/10W 68K  | 1       |         |
| R17       | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 1       |         |
| R18       | ERJ6GEYG151  | M.RESISTOR CH 1/10W 150  | 1       |         |
| R19       | ERJ6GEYG301  | M.RESISTOR CH 1/10W 300  | 1       |         |
| R20       | ERJ6GEYG472  | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R21       | ERJ6GEYG163  | M.RESISTOR CH 1/10W 16K  | 1       |         |
| R22       | ERJ6GEYG821  | M.RESISTOR CH 1/10W 820  | 1       |         |
| R23, 24   | ERJ6GEYG102  | M.RESISTOR CH 1/10W 1K   | 2       |         |
| R25, 26   | ERJ6GEYG101  | M.RESISTOR CH 1/10W 100  | 2       |         |
| R27       | ERJ6GEYG122  | M.RESISTOR CH 1/10W 1.2K | 1       |         |
| R28       | ERJ6GEYG471  | M.RESISTOR CH 1/10W 470  | 1       |         |
| R29       | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R30       | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1       |         |
| R31       | VRED034E333  | M.RESISTOR CH 1/10W 33K  | 1       |         |
| R32       | VRED034E103  | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R33       | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R34       | ERJ6GEYG223  | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R35       | ERJ6GEYG562  | M.RESISTOR CH 1/10W 5.6K | 1       |         |
| R36, 37   | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 2       |         |
| R38       | ERJ6GEYG823  | M.RESISTOR CH 1/10W 82K  | 1       |         |
| R39       | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 1       |         |
| R40       | ERJ6GEYG222  | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R41       | ERJ6GEYG563  | M.RESISTOR CH 1/10W 56K  | 1       |         |
| R42       | ERJ6GEYG333  | M.RESISTOR CH 1/10W 33K  | 1       |         |
| R43       | ERJ6GEYG332  | M.RESISTOR CH 1/10W 3.3K | 1       |         |
| R44       | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1       |         |
| R45       | ERJ6GEYG273  | M.RESISTOR CH 1/10W 27K  | 1       |         |
| R46       | ERJ6GEYG224  | M.RESISTOR CH 1/10W 220K | 1       |         |
| R47       | ERJ6GEYG472  | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R48       | ERJ6GEYG272  | M.RESISTOR CH 1/10W 2.7K | 1       |         |
| R49       | ERJ6GEYG221  | M.RESISTOR CH 1/10W 220  | 1       |         |



| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R50     | ERJ6GEYC391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R51     | VRE0034E273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R52     | VRE0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         |
| R53     | VRE0034E153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R54     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         |
| R55     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R56     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R57     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R58,59  | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R60,61  | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R62,63  | VRE0034E561 | M.RESISTOR CH 1/10W 560  | 2   |         |
| R64     | ERJ6GEYG150 | M.RESISTOR CH 1/10W 15   | 1   |         |
| R65     | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 1   |         |
| R66     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         |
| R67     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R68     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R69     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R70     | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R71     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R72     | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R73     | ERJ6GEYG183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R74     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R75     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R76     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R77     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R78     | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R79     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R80     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R81     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R82     | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R83     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R84     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         |
| R85     | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R86,87  | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R88     | ERJ6GEYG823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R89     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R90     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R91     | ERJ6GEYG563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R92     | ERJ6GEYG333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R93     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R94     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R95     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R96     | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R97     | ERJ6GEYG224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R98     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R99     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R100    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R101    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R102    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R103    | VRE0034E223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R104    | VRE0034E153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R105    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R109,10 | ERJ6GEY0R00 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R133    | ERJ6GEYG224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R135,36 | ERJ6GEYG822 | M.RESISTOR CH 1/10W 8.2K | 2   |         |
| R137    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R138    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R139    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R140    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R141    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R142    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R143,44 | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R145    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R146    | ERJ6GEYG105 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R148,49 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R150    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R151    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R152    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R153    | ERJ6GEYG333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R154    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R155    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R156    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R157    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R158    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R159    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R160,61 | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R162,63 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R164,65 | ERJ6GEY0R00 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R166,67 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R168    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R169,70 | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 2   |         |
| R171    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R172    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R173    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R174    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R175    | ERJ6GEY0R00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R176    | ERDS2TJ101  | C.RESISTOR 1/4W 100      | 1   |         |
| R178    | ERDS2TJ481  | C.RESISTOR 1/4W 580      | 1   |         |
| R200    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R201    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R202,03 | VRE0034E331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R204    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R205    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R206,07 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R209    | VRE0034E621 | M.RESISTOR CH 1/10W 620  | 1   |         |
| R210,11 | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 2   |         |
| R212    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R213    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R214    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R215    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R216    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R217    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R218    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R219    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R220    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R221    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R222,23 | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R224    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R225    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R226    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R227    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R228    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R229    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R230    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R231    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R233    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R234    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R235    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R236    | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 1   |         |
| R237    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R238    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R240    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R241    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R242    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R243    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R244    | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R245    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R246    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R257    | VRE0034E331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R258-60 | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 3   |         |
| R262,63 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R264    | VRE0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R265,66 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R268    | ERJ6GEY0R00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R269    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R270    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R271    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R272    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R273    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R274    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R275    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R276    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R277    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R278    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R279    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R280    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R281    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R282    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R283    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R285,86 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R288    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R290    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R291    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R292    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R293    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R294    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R298    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R299    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R300.01 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R302    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R303    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R306    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R307    | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R308    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R309    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R310    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R311    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R312    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R313    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R314    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R316-18 | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 3   |         |
| R320.21 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R322    | VRE0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R323.24 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R326    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R327    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R328    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R329    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R330    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R331    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R332    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R333    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R334    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R335    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R336    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R337    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R338.39 | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R340    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R341    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R342    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R344.45 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R346    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R347    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R348    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R349    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R350    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R351    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R355    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R356    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R357.58 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R359    | VRE0034E271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R360    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R364    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R365    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R366    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R367    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R368    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R369    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R370    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R371    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R372    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R373    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R374.75 | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R376    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R396    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R397    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R398    | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R399    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R400    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R401.02 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R404    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R405.06 | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 2   |         |
| R409    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R410    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R411    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R412    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R413-16 | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 4   |         |
| R417    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R418    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R421    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R422    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R423    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R424    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R425.26 | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R427    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R428    | VRE0034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R429    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R430    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R431    | VRE0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R432    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R433    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R434    | ERJ6GEYG123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R435    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R436    | ERJ6GEYG822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R437    | ERJ6GEYG123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R438    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R439    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R440    | VRE0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R441    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R442    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R443    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R501    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R502    | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R503.04 | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R505.06 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R507    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R508    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R509    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R510    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R511    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R512    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R513    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R514    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R515    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R516    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R517    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R518    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R519    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R520    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R521    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R522    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R523    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R524    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R525    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R526    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R527    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R528    | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R529    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R530    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R542    | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R543    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R544    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R545    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R546    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R547    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R549    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R551    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R552    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R553    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R554    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R555    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R556    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R557    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R558    | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R559    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R560    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R564    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R565    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R566    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R567    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R568    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R569    | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R570    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R571    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R572    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R573,74 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R576    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R577    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R578    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R579,80 | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 2   |         |
| R581,82 | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R583    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R584    | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R585    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R586    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R587    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R588    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R590    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R591    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R592    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R593,94 | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 2   |         |
| R595,96 | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R597    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R598    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R599    | ERJ6GEYG822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R600    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R601,02 | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R603    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R604    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R605    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R606    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R607    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R608    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R609,10 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R611    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R612    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R613    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R614    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R615    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R616    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R617    | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R618    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R619    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R620    | ERJ6GEYG181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R621    | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R622    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R623    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R630    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R633    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R634    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R635    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R636    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R637    | ERJ6GEYG183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R642    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R643    | ERJ6GEYG822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R644    | ERJ6GEYG133 | M.RESISTOR CH 1/10W 13K  | 1   |         |
| R645    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R646    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R647    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R648,49 | ERJ6GEYG473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R650    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R651    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R652    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R653    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R654,55 | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R656    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R657    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R658    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R659    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R660    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R661    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R662    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R663    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R664    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R665    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R666    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R667    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R668    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R669    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R670    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R671    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R672,73 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R674    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R675    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R676    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R677    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R678    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R679    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R680    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R681    | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R682    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R683    | ERJ6GEYG124 | M.RESISTOR CH 1/10W 120K | 1   |         |
| R684    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R685    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R686    | ERJ6GEYG181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R687    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R688    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R689    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R690,91 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R692,93 | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R694,95 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R696,97 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R698,99 | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R700,01 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R702    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R703    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R704-07 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 4   |         |
| R709    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R711    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R714,15 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R716    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R717    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R718    | ERJ6GEYG154 | M.RESISTOR CH 1/10W 150K | 1   |         |
| R719    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R720    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R721    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R722    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R723    | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R724    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R725    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R726    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R727    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R728    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R729    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R730    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R731    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R732    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R733    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R734    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R735    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R736    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R737    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R739,40 | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R741    | ERJ6GEYG105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R742    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R743    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R744    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R800    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R801    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R802    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R803    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R804    | ERJ6GEYG183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R805    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R806    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R807    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R808-10 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 3   |         |
| R811    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R812-14 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 3   |         |
| R815    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R816    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|----------|--------------|-------------------------|-----|---------|
| R817    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | SW800    | VSS0126      | SWITCH                  | 1   |         |
| R819,20 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         | SW801    | VJP1990      | CONNECTOR               | 1   |         |
| R821    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | SW801    | VJS1990      | CONNECTOR               | 1   |         |
| R822,23 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |          |              |                         |     |         |
| R826    | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |          |              |                         |     |         |
| R827    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |          |              |                         |     |         |
| R828    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | TH501-04 | ERTD2FGL102S | THERMISTOR              | 1K  | 4       |
| R829    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |              |                         |     |         |
| R830    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |          |              |                         |     |         |
| R831    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |          |              |                         |     |         |
| R832    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | TP1-P4   | VJR0646      | TEST POINT              |     | 4       |
| R833    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | TP6,P7   | VJR0646      | TEST POINT              |     | 2       |
| R834    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         | TP201-04 | VJR0646      | TEST POINT              |     | 4       |
| R835    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | TP206    | VJR0646      | TEST POINT              |     | 1       |
| R836    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | TP501-03 | VJR0646      | TEST POINT              |     | 3       |
| R837    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | TP505-07 | VJR0646      | TEST POINT              |     | 3       |
| R838    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | TP800-03 | VJR0646      | TEST POINT              |     | 4       |
| R839,40 | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 2   |         | TP805    | VJR0646      | TEST POINT              |     | 1       |
| R841    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | TPGL,G2  | VJR0646      | TEST POINT              |     | 2       |
| R842    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | TPG201   | VJR0646      | TEST POINT              |     | 1       |
| R843    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | TPG501   | VJR0646      | TEST POINT              |     | 1       |
| R844-46 | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 3   |         |          |              |                         |     |         |
| R847    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |          |              |                         |     |         |
| R848    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |              |                         |     |         |
| R849    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | VC201    | ECV12W20X50  | V.CAPACITOR             | 20P | 1       |
| R850    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VC501    | ECV12W30X53  | V.CAPACITOR             | 30P | 1       |
| R851    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |          |              |                         |     |         |
| R852    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |              |                         |     |         |
| R853    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |          |              |                         |     |         |
| R854    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VR1      | VRV0109B201  | V.RESISTOR              | 200 | 1       |
| R855    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | VR2      | VRV0109B502  | V.RESISTOR              | 5K  | 1       |
| R856    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VR3      | VRV0109B501  | V.RESISTOR              | 500 | 1       |
| R857    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | VR4      | VRV0109B502  | V.RESISTOR              | 5K  | 1       |
| R858    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VR200    | VRV0064B501  | V.RESISTOR              | 500 | 1       |
| R859-62 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 4   |         | VR201    | VRV0064B503  | V.RESISTOR              | 50K | 1       |
| R867    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         | VR202    | VRV0064B103  | V.RESISTOR              | 10K | 1       |
| R868    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | VR203    | VRV0109B501  | V.RESISTOR              | 500 | 1       |
| R869    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         | VR204    | VRV0109B503  | V.RESISTOR              | 50K | 1       |
| R870    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | VR205    | VRV0109B501  | V.RESISTOR              | 500 | 1       |
| R871    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | VR206    | VRV0109B503  | V.RESISTOR              | 50K | 1       |
| R872    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         | VR207    | VRV0109B102  | V.RESISTOR              | 1K  | 1       |
| R873    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | VR208,09 | VRV0109B501  | V.RESISTOR              | 500 | 2       |
| R876    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | VR210-13 | VRV0109B102  | V.RESISTOR              | 1K  | 4       |
| R878    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | VR501    | VRV0109B501  | V.RESISTOR              | 500 | 1       |
| R880    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | VR502    | VRV0109B503  | V.RESISTOR              | 50K | 1       |
| R882    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | VR503-06 | VRV0064B503  | V.RESISTOR              | 50K | 4       |
| R883,84 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         | VR507    | VRV0109B201  | V.RESISTOR              | 200 | 1       |
| R886,87 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | VR508    | VRV0109B101  | V.RESISTOR              | 100 | 1       |
| R889,90 | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 2   |         | VR509    | VRV0109B201  | V.RESISTOR              | 200 | 1       |
| R891    | ERJ6GEYG563 | M.RESISTOR CH 1/10W 56K  | 1   |         | VR510    | VRV0109B203  | V.RESISTOR              | 20K | 1       |
| R892    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | VR511    | VRV0109B502  | V.RESISTOR              | 5K  | 1       |
| R893    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | VR512    | VRV0064B503  | V.RESISTOR              | 50K | 1       |
| R894    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VR513,14 | VRV0109B102  | V.RESISTOR              | 1K  | 2       |
| R895    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         | VR515,16 | VRV0109B501  | V.RESISTOR              | 500 | 1       |
| R896    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | VR517    | VRV0064B503  | V.RESISTOR              | 50K | 1       |
| R897    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | VR800,01 | VRV0109B202  | V.RESISTOR              | 2K  | 1       |
| R898,99 | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 2   |         | VR802,03 | VRV0109B203  | V.RESISTOR              | 20K | 2       |
| R900    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |          |              |                         |     |         |
| R901-05 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 5   |         |          |              |                         |     |         |
| R906    | ERJ6GEYG224 | M.RESISTOR CH 1/10W 220K | 1   |         |          |              |                         |     |         |
| R907-09 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 3   |         |          |              | MISCELLANEOUS           |     |         |
| R910    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |          | VML2143      | CARD PULLER             |     | 1       |
| R911    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |          | VML2144      | CARD PULLER             |     | 1       |
| R912-16 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 5   |         |          | VME1547      | BARRIER                 |     | 1       |
| R917    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |          | VXA3966      | P.C.B. SHIELD           |     | 1       |
| R925,26 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |          | XAG26E       | NUT                     |     | 4       |
| R928    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |          | XYN3+K6FR    | SCREW                   |     | 5       |
| R929,30 | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 2   |         |          | XYN26+CI2    | SCREW                   |     | 4       |
| R1001   | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |          |              |                         |     |         |
| R1002   | ERJ6GEYG621 | M.RESISTOR CH 1/10W 620  | 1   |         |          |              |                         |     |         |
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|         |             |                          |     |         |          |              |                         |     |         |
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|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |
|         |             |                          |     |         |          |              |                         |     |         |

| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks      |
|---------|--------------|---------------------------|-----|--------------|
|         | VEP8063Q     | P.C. BOARD W/COMPONENT    |     | FOR AU-62H   |
|         |              | W2 ENCODER                |     |              |
|         | VEP80632A    | P.C. BOARD W/COMPONENT    |     | FOR VEP8063Q |
|         |              | W2 SUB                    |     |              |
|         |              |                           |     |              |
|         |              |                           |     |              |
|         |              |                           |     |              |
|         |              |                           |     |              |
|         |              |                           |     |              |
|         |              | CAPACITORS                |     |              |
| C1      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C2      | ECEA1CU221   | E. CAPACITOR 16V 220U     | 1   |              |
| C3      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C4      | ECEAOJU101   | E. CAPACITOR 6.3V 100U    | 1   |              |
| C5      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C6      | ECEA1CU221   | E. CAPACITOR 16V 220U     | 1   |              |
| C7-C9   | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |              |
| C10     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C11     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |              |
| C12,13  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |              |
| C14     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |              |
| C15     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |              |
| C16     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C17     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |              |
| C18     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C19,20  | ECEA1CU221   | E. CAPACITOR 16V 220U     | 2   |              |
| C21,22  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |              |
| C23     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |              |
| C24,25  | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |              |
| C26     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |              |
| C27     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |              |
| C28     | ECQM1H83JF   | P. CAPACITOR 50V 0.018U   | 1   |              |
| C29     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C30     | ECEA1ENR47S  | E. CAPACITOR 25V 4.7U     | 1   |              |
| C31     | ECEA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 1   |              |
| C32     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C33     | ECEAOJU101   | E. CAPACITOR 6.3V 100U    | 1   |              |
| C35     | ECEAOJU221   | E. CAPACITOR 6.3V 220U    | 1   |              |
| C36     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C37     | ECEAOJU221   | E. CAPACITOR 6.3V 220U    | 1   |              |
| C38-46  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 9   |              |
| C49,50  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |              |
| C51     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |              |
| C52     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |              |
| C53     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C54     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |              |
| C55     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |              |
| C56     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C57     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |              |
| C58     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C59     | ECEAOJU101   | E. CAPACITOR 6.3V 100U    | 1   |              |
| C60     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |              |
| C61     | ECEAOJU221   | E. CAPACITOR 6.3V 220U    | 1   |              |
| C62     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C63     | ECEAOJU221   | E. CAPACITOR 6.3V 220U    | 1   |              |
| C64-73  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 10  |              |
| C76     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |              |
| C77     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |              |
| C78     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |              |
| C79     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C80,81  | ECEA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 2   |              |
| C82,83  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |              |
| C84     | ECEAOJU470   | E. CAPACITOR 6.3V 47U     | 1   |              |
| C85,86  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |              |
| C87     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C88     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |              |
| C89     | ECKF1H1032F  | C. CAPACITOR 50V 0.01U    | 1   |              |
| C113    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |              |
| C114-17 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 4   |              |
| C120    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C121    | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |              |
| C122    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |              |
| C123    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |              |
| C124    | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |              |

| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|---------|--------------|---------------------------|-----|---------|
| C125    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C126    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C127    | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
| C128    | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C129,30 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         |
| C131    | ECEA1HN010S  | E. CAPACITOR 50V 1U       | 1   |         |
| C132    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C133    | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C134    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C135    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C136    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C137    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C138    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C139-41 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C142    | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C143,44 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         |
| C145    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C146    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C147-49 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 3   |         |
| C150    | ECEA1HN010S  | E. CAPACITOR 50V 1U       | 1   |         |
| C151    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C152    | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C154    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C155    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C156    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C157    | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C158    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C159,60 | ECUM1H821JCN | C. CAPACITOR CH 50V 820P  | 2   |         |
| C161,62 | ECEA1AN470S  | E. CAPACITOR 10V 47U      | 2   |         |
| C163    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C164    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C165    | ECEA1AN470S  | E. CAPACITOR 10V 47U      | 1   |         |
| C166    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C200    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C201    | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C202,03 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C204    | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C205    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C206    | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |         |
| C207    | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C209    | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C210    | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C211    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C212    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C213    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C214    | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C215    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C219    | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C220    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C223    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C224    | ECUM1H030DCN | C. CAPACITOR CH 50V 3P    | 1   |         |
| C226    | ECEA1HN47S   | E. CAPACITOR 50V 0.47U    | 1   |         |
| C227,28 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C229    | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C230,31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C232    | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C233    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C235    | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |         |
| C236    | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C238    | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C239    | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C240    | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C241    | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C242    | ECEA1HN47S   | E. CAPACITOR 50V 0.47U    | 1   |         |
| C243    | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C244    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C245    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C247    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C248    | ECEAOJU470   | E. CAPACITOR 6.3V 47U     | 1   |         |
| C249    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C257,58 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C260    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C261    | ECUM1H030DCN | C. CAPACITOR CH 50V 3P    | 1   |         |
| C263    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C264    | ECEA1HN47S   | E. CAPACITOR 50V 0.47U    | 1   |         |



| Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|
| C266, 67 | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C268     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C269     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C270, 71 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C272     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C273     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C275     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |         |
| C276     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C278     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C279     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C280     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C281     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C282     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C283     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C284     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C291     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C292     | ECEA1CU221   | E. CAPACITOR 16V 220U     | 1   |         |
| C293     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C294     | ECEA1U101    | E. CAPACITOR 6.3V 100U    | 1   |         |
| C297, 98 | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C299     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C300     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C301     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C303     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
| C304     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C305, 06 | ECEA1HNR47S  | E. CAPACITOR 50V 0.47U    | 2   |         |
| C307, 08 | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 2   |         |
| C311     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C312, 13 | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 2   |         |
| C314     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C501, 02 | ECEA1CU101   | E. CAPACITOR 16V 100U     | 2   |         |
| C503     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C504     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         |
| C505     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C506     | ECEA1HNR47S  | E. CAPACITOR 50V 0.47U    | 1   |         |
| C507, 08 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C510     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C517     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C518     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C519, 20 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C521     | ECEA1U470    | E. CAPACITOR 6.3V 47U     | 1   |         |
| C522     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C523     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         |
| C524     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C525     | ECEA1U101    | E. CAPACITOR 6.3V 100U    | 1   |         |
| C526     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C527, 28 | ECEA1CU101   | E. CAPACITOR 16V 100U     | 2   |         |
| C531     | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C532     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C533     | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C534, 35 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C536, 37 | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 2   |         |
| C538, 39 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C540     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C541     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C542     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C543     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |         |
| C546     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C547     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C548     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C549     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C550     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C551     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P  | 1   |         |
| C552     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C553     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C554     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C555     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C559     | ECEA1U470    | E. CAPACITOR 6.3V 47U     | 1   |         |
| C560     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C561     | ECEA1JN330S  | E. CAPACITOR 6.3V 33U     | 1   |         |
| C562     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C563     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
| C564     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C565     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P  | 1   |         |
| C566     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |

| Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|
| C567-69  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C570     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C571     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C572     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C573     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C574, 75 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 2   |         |
| C576, 77 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C578     | ECEA1U101    | E. CAPACITOR 6.3V 100U    | 1   |         |
| C579     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C580, 81 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 2   |         |
| C582     | ECEA1U101    | E. CAPACITOR 6.3V 100U    | 1   |         |
| C583     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C584     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C585     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C586     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C587, 88 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C589     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
| C590     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C591     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C592-97  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 6   |         |
| C598     | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C599, 00 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C601     | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C602     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C603     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C604     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C605     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C606     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C607     | ECEA1U101    | E. CAPACITOR 6.3V 100U    | 1   |         |
| C608     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C609     | ECEA1U101    | E. CAPACITOR 6.3V 100U    | 1   |         |
| C610     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C611     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C612     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C615-18  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 4   |         |
| C619     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C620     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C621     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C622     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C623     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C624     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C625     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C626     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C627, 28 | ECUM1H122JN  | C. CAPACITOR CH 50V 1200P | 2   |         |
| C629     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C630, 31 | ECUM1H122JN  | C. CAPACITOR CH 50V 1200P | 1   |         |
| C632     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C634     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C635     | ECQF1H120JC  | C. CAPACITOR 50V 12P      | 1   |         |
| C800     | ECUM1H122JN  | C. CAPACITOR CH 50V 1200P | 1   |         |
| C801     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C802     | ECQM1H122JF  | P. CAPACITOR 50V 1200P    | 1   |         |
| C803     | ECQV1H684JZ  | P. CAPACITOR 50V 0.68U    | 1   |         |
| C804-06  | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 3   |         |
| C808     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C809, 10 | ECUM1H122JN  | C. CAPACITOR CH 50V 1200P | 2   |         |
| C812     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C813     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C814-22  | ECUM1H122JN  | C. CAPACITOR CH 50V 1200P | 9   |         |
| C823-25  | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 3   |         |
| C827     | ECEA1U101    | E. CAPACITOR 6.3V 100U    | 1   |         |
| C828, 29 | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 2   |         |
| C830     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C831     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C832     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C834     | ECEA1CN100S  | E. CAPACITOR 16V 10U      | 1   |         |
| C835     | ECEA1EN487S  | E. CAPACITOR 25V 4.7U     | 1   |         |
| C836     | ECEA1JN330S  | E. CAPACITOR 6.3V 33U     | 1   |         |
| C837     | ECEA1EN487S  | E. CAPACITOR 25V 4.7U     | 1   |         |
| C838     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C841     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C842     | ECEA1U101    | E. CAPACITOR 6.3V 100U    | 1   |         |
| C843, 44 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C845     | ECEA1U101    | E. CAPACITOR 6.3V 100U    | 1   |         |
| C846, 47 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |







| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R52     | VRE0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         |
| R53     | VRE0034E153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R54     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         |
| R55     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R56     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R57     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R58,59  | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R60,61  | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R62,63  | VRE0034E561 | M.RESISTOR CH 1/10W 560  | 2   |         |
| R64     | ERJ6GEYG150 | M.RESISTOR CH 1/10W 15   | 1   |         |
| R65     | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 1   |         |
| R66     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         |
| R67     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R68     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R69     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R70     | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R71     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R72     | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R73     | ERJ6GEYG183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R74     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R75     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R76     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R77     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R78     | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R79     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R80     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R81     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R82     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R83     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R84     | ERJ6GEYG220 | M.RESISTOR CH 1/10W 22   | 1   |         |
| R85     | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R86,87  | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R88     | ERJ6GEYG823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R89     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R90     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R91     | ERJ6GEYG563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R92     | ERJ6GEYG333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R93     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R94     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R95     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R96     | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R97     | ERJ6GEYG224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R98     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R99     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R100    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R101    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R102    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R103    | VRE0034E223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R104    | VRE0034E153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R105    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R109,10 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R133    | ERJ6GEYG224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R135,36 | ERJ6GEYG822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R137    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R138    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R139    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R140    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R141    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R142    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R143,44 | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R145    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R146    | ERJ6GEYG105 | M.RESISTOR CH 1/10W 10   | 1   |         |
| R148,49 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R150    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R151    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R152    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R153    | ERJ6GEYG333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R154    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R155    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R156    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R157    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R158    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R159    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R160,61 | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R162,63 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R164,65 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 2   |         |
| R166,67 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R168    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R169,70 | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R171    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R172    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R173    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R174    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R175    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R176    | ERDS2TJ101  | C.RESISTOR 1/4W 100      | 1   |         |
| R178    | ERDS2TJ681  | C.RESISTOR 1/4W 680      | 1   |         |
| R200    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R201    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R202,03 | VRE0034E331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R204    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R205    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R206,07 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R209    | VRE0034E621 | M.RESISTOR CH 1/10W 620  | 1   |         |
| R210,11 | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 2   |         |
| R212    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R213    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R214    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R215    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R216    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R217    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R218    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R219    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R220    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R221    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R222,23 | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R224    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R225    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R226    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R227    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R228    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R229    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R230    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R231    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R233    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R234    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R235    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R236    | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 1   |         |
| R237    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R238    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R240    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R241    | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R242    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R243    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R244    | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R245    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R246    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R257    | VRE0034E331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R258-60 | VRE0034E301 | M.RESISTOR CH 1/10W 300  | 3   |         |
| R262,63 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R264    | VRE0034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R265,66 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R268    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R269    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R270    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R271    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R272    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R273    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R274    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R275    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R276    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R277    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R278    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R279    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R280    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R281    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R282    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R283    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R285,86 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R288    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R290    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |

| Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R291     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R417     | VRED034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R292     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R418     | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R293     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R421     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R294     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         | R422     | VRED034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R296     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         | R423     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R299     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R424     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R300, 01 | VRED034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R425, 26 | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R302     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | R427     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R303     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R428     | VRED034E391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R306     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R429     | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R307     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 820  | 1   |         | R430     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R308     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R431     | VRED034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R309     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R432     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R310     | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R433     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R311     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R434     | ERJ6GEYG123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R312     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R435     | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R313     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         | R436     | ERJ6GEYG822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R314     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R437     | ERJ6GEYG123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R316-18  | VRED034E301 | M.RESISTOR CH 1/10W 300  | 3   |         | R438     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R320, 21 | VRED034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R439     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R322     | VRED034E821 | M.RESISTOR CH 1/10W 820  | 1   |         | R440     | VRED034E821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R323, 24 | VRED034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R441     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R326     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | R442     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R327     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R443     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R328     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R501     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R329     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         | R502     | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R330     | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         | R503, 04 | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R331     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R505, 06 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R332     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         | R507     | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R333     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R508     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R334     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         | R509     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R335     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R510     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R336     | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         | R511     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R337     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R512     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R338, 39 | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         | R513     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R340     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         | R514     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R341     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R515     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R342     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R516     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R344, 45 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R517     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R346     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R518     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R347     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         | R519     | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R348     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R520     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R349     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         | R521     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R350     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R522     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R351     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         | R523     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R355     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         | R524     | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R356     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R525     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R357, 58 | VRED034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R526     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R359     | VRED034E271 | M.RESISTOR CH 1/10W 270  | 1   |         | R527     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R360     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R528     | VRED034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R364     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         | R529     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R365     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R530     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R366     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R542     | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R367     | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | R543     | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R368     | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R544     | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R369     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R545     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R370     | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         | R546     | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R371     | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R547     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R372     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R549     | ERJ6GEYG273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R373     | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R551     | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R374, 75 | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 2   |         | R552     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R376     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R553     | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R396     | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R554     | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R397     | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R555     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R398     | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R556     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R399     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         | R557     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R400     | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R558     | VRED034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R401, 02 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R559     | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R404     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R560     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R405, 06 | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 2   |         | R564     | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R409     | VRED034E391 | M.RESISTOR CH 1/10W 390  | 1   |         | R565     | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R410     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         | R566     | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R411     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         | R567     | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R412     | VRED034E391 | M.RESISTOR CH 1/10W 390  | 1   |         | R568     | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R413-16  | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 4   |         | R569     | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R570    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R571    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R572    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R573,74 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R576    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R577    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R578    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R579,80 | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 2   |         |
| R581,82 | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R583    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R584    | ERJ6GEYG153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R585    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R586    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R587    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R588    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R590    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R591    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R592    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R593,94 | ERJ6GEYG121 | M.RESISTOR CH 1/10W 120  | 2   |         |
| R595,96 | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 2   |         |
| R597    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R598    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R599    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R600    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R601,02 | VRB0034E301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R603    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R604    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R605    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R606    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R607    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R608    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R609,10 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R611    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R612    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R613    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R614    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R615    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R616    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R617    | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R618    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R619    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R620    | ERJ6GEYG181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R621    | ERJ6GEYG821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R622    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R623    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R630    | ERJ6GEYG272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R633    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R634    | ERJ6GEYG683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R635    | ERJ6GEYG104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R636    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R637    | ERJ6GEYG183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R642    | ERJ6GEYG332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R643    | ERJ6GEYG822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R644    | ERJ6GEYG133 | M.RESISTOR CH 1/10W 13K  | 1   |         |
| R645    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R646    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R647    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R648,49 | ERJ6GEYG473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R650    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R651    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R652    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R653    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R654,55 | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R656    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R657    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R658    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R659    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R660    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R661    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R662    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R663    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R664    | ERJ6GEYG682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R665    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R666    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R667    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R668    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R669    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R670    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R671    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R672,73 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R674    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R675    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R676    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R677    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R678    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R679    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R680    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R681    | ERJ6GEYG330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R682    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R683    | ERJ6GEYG124 | M.RESISTOR CH 1/10W 120K | 1   |         |
| R684    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R685    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R686    | ERJ6GEYG181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R687    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R688    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R689    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R690,91 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R692,93 | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R694,95 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R696,97 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R698,99 | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R700,01 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R702    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R703    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R704-07 | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 4   |         |
| R709    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R711    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R714,15 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R716    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R717    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R718    | ERJ6GEYG154 | M.RESISTOR CH 1/10W 150K | 1   |         |
| R719    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R720    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R721    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R722    | ERJ6GEYG182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R723    | VRB0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R724    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R725    | ERJ6GEYG470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R726    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R727    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R728    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R729    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R730    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R731    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R732    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R733    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R734    | ERJ6GEYG561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R735    | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R736    | ERJ6GEYG101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R737    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R739,40 | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R741    | ERJ6GEYG105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R742    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R743    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R744    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R800    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R801    | ERJ6GEYG562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R802    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R803    | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R804    | ERJ6GEYG163 | M.RESISTOR CH 1/10W 16K  | 1   |         |
| R805    | ERJ6GEYG102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R806    | ERJ6GEYG472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R807    | ERJ6GEYG152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R808-10 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 3   |         |
| R811    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R812-14 | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 3   |         |
| R815    | ERJ6GEYG222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R816    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R817    | ERJ6GEYG392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R819,20 | ERJ6GEYG103 | M.RESISTOR CH 1/10W 10K  | 2   |         |

| Ref. No.  | Part No.    | Part Name & Description   | Pcs | Remarks |
|-----------|-------------|---------------------------|-----|---------|
| R821      | ERJ6GEYG392 | M. RESISTOR CH 1/10W 3.9K | 1   |         |
| R822, 23  | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K  | 2   |         |
| R826      | ERJ6GEYG153 | M. RESISTOR CH 1/10W 15K  | 1   |         |
| R827      | ERJ6GEYG392 | M. RESISTOR CH 1/10W 3.9K | 1   |         |
| R828      | ERJ6GEYG562 | M. RESISTOR CH 1/10W 5.6K | 1   |         |
| R829      | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K  | 1   |         |
| R830      | ERJ6GEYG122 | M. RESISTOR CH 1/10W 1.2K | 1   |         |
| R831      | ERJ6GEYG222 | M. RESISTOR CH 1/10W 2.2K | 1   |         |
| R832      | ERJ6GEYG392 | M. RESISTOR CH 1/10W 3.9K | 1   |         |
| R833      | ERJ6GEYG122 | M. RESISTOR CH 1/10W 1.2K | 1   |         |
| R834      | ERJ6GEYG182 | M. RESISTOR CH 1/10W 1.8K | 1   |         |
| R835      | ERJ6GEYG392 | M. RESISTOR CH 1/10W 3.9K | 1   |         |
| R836      | ERJ6GEYG682 | M. RESISTOR CH 1/10W 6.8K | 1   |         |
| R837      | ERJ6GEYG392 | M. RESISTOR CH 1/10W 3.9K | 1   |         |
| R838      | ERJ6GEYG682 | M. RESISTOR CH 1/10W 6.8K | 1   |         |
| R839, 40  | ERJ6GEYG392 | M. RESISTOR CH 1/10W 3.9K | 2   |         |
| R841      | ERJ6GEYG682 | M. RESISTOR CH 1/10W 6.8K | 1   |         |
| R842      | ERJ6GEYG392 | M. RESISTOR CH 1/10W 3.9K | 1   |         |
| R843      | ERJ6GEYG682 | M. RESISTOR CH 1/10W 6.8K | 1   |         |
| R844-46   | ERJ6GEYG392 | M. RESISTOR CH 1/10W 3.9K | 3   |         |
| R847      | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 1   |         |
| R848      | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K   | 1   |         |
| R849      | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 1   |         |
| R850      | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K   | 1   |         |
| R851      | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 1   |         |
| R852      | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K   | 1   |         |
| R853      | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 1   |         |
| R854      | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K   | 1   |         |
| R855      | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 1   |         |
| R856      | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K   | 1   |         |
| R857      | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 1   |         |
| R858      | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K   | 1   |         |
| R859-62   | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 4   |         |
| R867      | ERJ6GEYG104 | M. RESISTOR CH 1/10W 100K | 1   |         |
| R868      | ERJ6GEYG562 | M. RESISTOR CH 1/10W 5.6K | 1   |         |
| R869      | ERJ6GEYG273 | M. RESISTOR CH 1/10W 27K  | 1   |         |
| R870      | ERJ6GEYG472 | M. RESISTOR CH 1/10W 4.7K | 1   |         |
| R871      | ERJ6GEYG562 | M. RESISTOR CH 1/10W 5.6K | 1   |         |
| R872      | ERJ6GEYG273 | M. RESISTOR CH 1/10W 27K  | 1   |         |
| R873      | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 1   |         |
| R876      | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 1   |         |
| R878      | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 1   |         |
| R880      | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 1   |         |
| R882      | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 1   |         |
| R883, 84  | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K  | 1   |         |
| R886, 87  | ERJ6GEYOR00 | M. RESISTOR CH 1/10W 0    | 2   |         |
| R889, 90  | ERJ6GEYG392 | M. RESISTOR CH 1/10W 3.9K | 2   |         |
| R891      | ERJ6GEYG563 | M. RESISTOR CH 1/10W 56K  | 1   |         |
| R892      | ERJ6GEYG472 | M. RESISTOR CH 1/10W 4.7K | 1   |         |
| R893      | ERJ6GEYG272 | M. RESISTOR CH 1/10W 2.7K | 1   |         |
| R894      | ERJ6GEYG102 | M. RESISTOR CH 1/10W 1K   | 1   |         |
| R895      | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K  | 1   |         |
| R896      | ERJ6GEYG122 | M. RESISTOR CH 1/10W 1.2K | 1   |         |
| R897      | ERJ6GEYG222 | M. RESISTOR CH 1/10W 2.2K | 1   |         |
| R898, 99  | ERJ6GEYG273 | M. RESISTOR CH 1/10W 27K  | 2   |         |
| R900      | ERJ6GEYG332 | M. RESISTOR CH 1/10W 3.3K | 1   |         |
| R901-05   | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K  | 5   |         |
| R906      | ERJ6GEYG224 | M. RESISTOR CH 1/10W 220K | 1   |         |
| R907-09   | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K  | 3   |         |
| R910      | ERJ6GEYG152 | M. RESISTOR CH 1/10W 1.5K | 1   |         |
| R911      | ERJ6GEYG392 | M. RESISTOR CH 1/10W 3.9K | 1   |         |
| R912-16   | ERJ6GEYG103 | M. RESISTOR CH 1/10W 10K  | 5   |         |
| R917      | ERJ6GEYG562 | M. RESISTOR CH 1/10W 5.6K | 1   |         |
| R925, 26  | ERJ6GEYG122 | M. RESISTOR CH 1/10W 1.2K | 2   |         |
| R928      | ERJ6GEYG562 | M. RESISTOR CH 1/10W 5.6K | 1   |         |
| R929, 30  | ERJ6GEYG392 | M. RESISTOR CH 1/10W 3.9K | 2   |         |
| R1001     | ERJ6GEYG681 | M. RESISTOR CH 1/10W 680  | 1   |         |
| R1002     | ERJ6GEYG621 | M. RESISTOR CH 1/10W 620  | 1   |         |
| SW201     | VSS0207     | SWITCH                    | 1   |         |
| SW202, 03 | VJP1990     | CONNECTOR                 | 2   |         |
| SW800     | VSS0126     | SWITCH                    | 1   |         |
| SW801     | VJP1990     | CONNECTOR                 | 1   |         |

| Ref. No.  | Part No.     | Part Name & Description | Pcs | Remarks |
|-----------|--------------|-------------------------|-----|---------|
| SW801     | VJS1990      | CONNECTOR               | 1   |         |
| TH501-04  | ERT02FGL102S | THERMISTOR 1K           | 4   |         |
| TP1-P4    | VJR0646      | TEST POINT              | 4   |         |
| TP6, P7   | VJR0646      | TEST POINT              | 2   |         |
| TP201-04  | VJR0646      | TEST POINT              | 4   |         |
| TP206     | VJR0646      | TEST POINT              | 1   |         |
| TP501-03  | VJR0646      | TEST POINT              | 3   |         |
| TP505-07  | VJR0646      | TEST POINT              | 3   |         |
| TP800-03  | VJR0646      | TEST POINT              | 4   |         |
| TP805     | VJR0646      | TEST POINT              | 1   |         |
| TPG1, G2  | VJR0646      | TEST POINT              | 2   |         |
| TPG201    | VJR0646      | TEST POINT              | 1   |         |
| TPC501    | VJR0646      | TEST POINT              | 1   |         |
| VC201     | ECV12W20K60  | V. CAPACITOR 20P        | 1   |         |
| VC501     | ECV12W30K53  | V. CAPACITOR 30P        | 1   |         |
| VR1       | VRV0109B201  | V. RESISTOR 200         | 1   |         |
| VR2       | VRV0109B502  | V. RESISTOR 5K          | 1   |         |
| VR3       | VRV0109B501  | V. RESISTOR 500         | 1   |         |
| VR4       | VRV0109B502  | V. RESISTOR 5K          | 1   |         |
| VR200     | VRV0064B501  | V. RESISTOR 500         | 1   |         |
| VR201     | VRV0064B503  | V. RESISTOR 50K         | 1   |         |
| VR202     | VRV0064B103  | V. RESISTOR 10K         | 1   |         |
| VR203     | VRV0109B501  | V. RESISTOR 500         | 1   |         |
| VR204     | VRV0109B503  | V. RESISTOR 50K         | 1   |         |
| VR205     | VRV0109B501  | V. RESISTOR 500         | 1   |         |
| VR206     | VRV0109B503  | V. RESISTOR 50K         | 1   |         |
| VR207     | VRV0109B102  | V. RESISTOR 1K          | 1   |         |
| VR208, 09 | VRV0109B501  | V. RESISTOR 500         | 2   |         |
| VR210-13  | VRV0109B102  | V. RESISTOR 1K          | 4   |         |
| VR501     | VRV0109B501  | V. RESISTOR 500         | 1   |         |
| VR502     | VRV0109B503  | V. RESISTOR 50K         | 1   |         |
| VR503-06  | VRV0064B503  | V. RESISTOR 50K         | 4   |         |
| VR507     | VRV0109B201  | V. RESISTOR 200         | 1   |         |
| VR508     | VRV0109B101  | V. RESISTOR 100         | 1   |         |
| VR509     | VRV0109B201  | V. RESISTOR 200         | 1   |         |
| VR510     | VRV0109B203  | V. RESISTOR 20K         | 1   |         |
| VR511     | VRV0109B502  | V. RESISTOR 5K          | 1   |         |
| VR512     | VRV0064B503  | V. RESISTOR 50K         | 1   |         |
| VR513, 14 | VRV0109B102  | V. RESISTOR 1K          | 2   |         |
| VR515, 16 | VRV0109B501  | V. RESISTOR 500         | 2   |         |
| VR517     | VRV0064B503  | V. RESISTOR 50K         | 1   |         |
| VR800, 01 | VRV0109B202  | V. RESISTOR 2K          | 1   |         |
| VR802, 03 | VRV0109B203  | V. RESISTOR 20K         | 2   |         |
|           |              | MISCELLANEOUS           |     |         |
|           | VNL2143      | CARD PULLER             | 1   |         |
|           | VNL2144      | CARD PULLER             | 1   |         |
|           | VNL21547     | BARRIER                 | 1   |         |
|           | VNA3966      | P.C.B. SHIELD PLATE     | 1   |         |
|           | XNG26E       | NUT                     | 4   |         |
|           | XYNV3-KGFR   | SCREW                   | 5   |         |
|           | XYN26-C12    | SCREW                   | 4   |         |

| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks    |
|----------|--------------|---------------------------|-----|------------|
|          | VEP03098E    | P.C. BOARD W/COMPONENT    |     | FOR AU-65K |
|          |              | M3 MOD & DEMOD            |     |            |
|          |              |                           |     |            |
|          |              |                           |     |            |
|          |              |                           |     |            |
|          |              |                           |     |            |
|          |              |                           |     |            |
|          |              |                           |     |            |
|          |              |                           |     |            |
|          |              | CAPACITORS                |     |            |
| C1, C2   | ECEA1CU101   | E. CAPACITOR 16V 100U     | 2   |            |
| C3       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C4       | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |            |
| C5       | ECUM1H020CCN | C. CAPACITOR CH 50V 2P    | 1   |            |
| C6       | ECUM1H0800CN | C. CAPACITOR CH 50V 80P   | 1   |            |
| C7       | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C10, 11  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |            |
| C12, 13  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            |
| C14      | ECEA1U470    | E. CAPACITOR 6.3V 47U     | 1   |            |
| C15      | VCM0028      | M. CAPACITOR 342P         | 1   |            |
| C16      | ECEA1U470    | E. CAPACITOR 6.3V 47U     | 1   |            |
| C17      | VCM0027      | M. CAPACITOR 301P         | 1   |            |
| C18-20   | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 3   |            |
| C21      | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |            |
| C22      | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |            |
| C23      | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |            |
| C24      | ECUM1H104KBN | C. CAPACITOR CH 50V 0.1U  | 1   |            |
| C25      | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |            |
| C26      | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |            |
| C27      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C28      | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P | 1   |            |
| C29, 30  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |            |
| C31      | ECEA1HUR47   | E. CAPACITOR 50V 0.47U    | 1   |            |
| C32      | VCM0047      | M. CAPACITOR              | 1   |            |
| C33      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            |
| C34      | ECEA1U221    | E. CAPACITOR 10V 220U     | 1   |            |
| C35      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C36      | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |            |
| C37      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            |
| C38      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C39      | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |            |
| C40      | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |            |
| C42      | ECEA1U470    | E. CAPACITOR 16V 47U      | 1   |            |
| C43, 44  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            |
| C45, 46  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |            |
| C47      | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |            |
| C48      | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            |
| C49      | ECUM1H332KBN | C. CAPACITOR CH 50V 3300P | 1   |            |
| C50, 51  | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 2   |            |
| C52      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C54      | ECUM1H471JCN | C. CAPACITOR CH 50V 470P  | 1   |            |
| C55      | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |            |
| C56      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C57      | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |            |
| C60      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C61      | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |            |
| C62      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C63      | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |            |
| C64      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C65      | ECSEF1CE106  | E. CAPACITOR 16V 10U      | 1   |            |
| C66      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C67      | ECSEF1CE106  | E. CAPACITOR 16V 10U      | 1   |            |
| C68      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C69, 70  | ECSEF1CE106  | E. CAPACITOR 16V 10U      | 2   |            |
| C71      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            |
| C72      | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |            |
| C73, 74  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |            |
| C201, 02 | ECEA1CU101   | E. CAPACITOR 16V 100U     | 2   |            |
| C203     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |            |
| C204     | ECUM1H020CCN | C. CAPACITOR CH 50V 2P    | 1   |            |
| C205, 06 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |            |
| C207     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |            |
| C208     | VCM0028      | M. CAPACITOR 342P         | 1   |            |
| C209     | VCM0027      | M. CAPACITOR 301P         | 1   |            |

| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|
| C210-12  | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 3   |         |
| C215     | ECUM1H100JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
| C216     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C217     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C218, 19 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C220, 21 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C222     | ECEA1HUR47   | E. CAPACITOR 50V 0.47U    | 1   |         |
| C223     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C224     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
| C225     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C226     | VCM0023      | M. CAPACITOR 379P         | 1   |         |
| C227     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C228     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C229     | ECEA1U221    | E. CAPACITOR 10V 220U     | 1   |         |
| C230     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C231     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C232     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C233     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P   | 1   |         |
| C234     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
| C235     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C236     | ECUM1H050DCN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C237     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C238     | ECUM1H100JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
| C239     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C240     | ECUM1H050DCN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C241     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C242     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C243     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C244     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C245     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C246-48  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |         |
| C252, 53 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C254     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C255     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C256, 57 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C258     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |         |
| C259     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C260     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C261     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C301, 02 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C303     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C304, 05 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C306     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C307     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C308, 09 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C310     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C311     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C316     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C322     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C325     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C342     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C343     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |         |
| C344     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C345     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C346     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C347, 48 | ECEA1AU101   | E. CAPACITOR 10V 100U     | 2   |         |
| C349     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C350     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C351, 52 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C353     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C354, 55 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C356     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C357     | ECEA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1   |         |
| C358     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C377, 78 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C380     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C381     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C382     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C383     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C386     | ECUM1H050DCN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C387     | ECUM1H100DCN | C. CAPACITOR CH 50V 10P   | 1   |         |
| C389     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C391     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C392     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C393     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |



| Ref.No.  | Part No.     | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description  | Pcs | Remarks |
|----------|--------------|--------------------------|-----|---------|----------|--------------|--------------------------|-----|---------|
| C394     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C747     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C395     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C750     | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C396, 97 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C751     | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C398     | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         | C752     | ECUM1H152JN  | C.CAPACITOR CH 50V 1500P | 1   |         |
| C399     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C753     | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C400     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C754     | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C401-03  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         | C755     | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C404     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C756     | ECUM1H560JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C405-07  | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 3   |         | C757     | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |         |
| C408, 09 | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 2   |         | C758     | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         |
| C410     | ECBA1AU471   | E.CAPACITOR 10V 470U     | 1   |         | C759     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C411     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C760     | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C412     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         | C762     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C413     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C763     | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C414     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         | C764-66  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         |
| C415     | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         | C767     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C416     | ECUM1H181JCN | C.CAPACITOR CH 50V 180P  | 1   |         | C768, 69 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C417, 18 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         | C770     | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C419     | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         | C771     | ECUM1H471JCN | C.CAPACITOR CH 50V 470P  | 1   |         |
| C420     | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         | C772     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C421     | ECUM1H560JCN | C.CAPACITOR CH 50V 68P   | 1   |         | C773-75  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         |
| C422     | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         | C776     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C423     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C777     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C424     | ECBA1CU100   | E.CAPACITOR 16V 10U      | 1   |         | C778, 79 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C425     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         | C780, 81 | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 2   |         |
| C426     | VCM0044      | M.CAPACITOR 130P         | 1   |         | C782     | ECBA1AU471   | E.CAPACITOR 10V 470U     | 1   |         |
| C427     | VCM0023      | M.CAPACITOR 379P         | 1   |         | C783     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C428     | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         | C784     | ECUM1H221JCN | C.CAPACITOR CH 50V 220P  | 1   |         |
| C429     | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 1   |         | C785     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C430     | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         | C786     | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C431     | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         | C787     | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |         |
| C432     | ECBA0JU221   | E.CAPACITOR 6.3V 220U    | 1   |         | C788     | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C433     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         | C789, 90 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C434     | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         | C791     | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C435     | ECUM1H020DCN | C.CAPACITOR CH 50V 2P    | 1   |         | C792     | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |
| C436, 37 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         | C793     | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C440     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         | C794     | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         |
| C441     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C796     | ECBA1CU100   | E.CAPACITOR 16V 10U      | 1   |         |
| C442, 43 | ECBA1CU221   | E.CAPACITOR 16V 220U     | 2   |         | C797     | VCM0023      | M.CAPACITOR 379P         | 1   |         |
| C444, 45 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C799     | ECBA0JU221   | E.CAPACITOR 6.3V 220U    | 1   |         |
| C446, 47 | VCM0027      | M.CAPACITOR 301P         | 2   |         | C800     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
| C448     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C801     | ECUM1H020DCN | C.CAPACITOR CH 50V 2P    | 1   |         |
| C453     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C802     | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C467     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C803, 04 | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 2   |         |
| C468     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C805     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
| C470     | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         | C808     | ECBA1CU221   | E.CAPACITOR 16V 220U     | 1   |         |
| C471     | ECUM1H060DCN | C.CAPACITOR CH 50V 6P    | 1   |         | C810     | ECBA1CU221   | E.CAPACITOR 16V 220U     | 1   |         |
| C472     | VCM0037F062  | C.CAPACITOR 50V 62P      | 1   |         | C811, 12 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C473     | ECUM1H182JN  | C.CAPACITOR CH 50V 1800P | 1   |         | C813, 14 | VCM0027      | M.CAPACITOR 301P         | 2   |         |
| C474     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C815     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C475     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C821     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C476     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C836     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |         |
| C477     | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         | C837     | ECUM1H060DCN | C.CAPACITOR CH 50V 6P    | 1   |         |
| C478     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C838, 39 | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 2   |         |
| C701, 02 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C840     | VCM0037F062  | C.CAPACITOR 50V 62P      | 1   |         |
| C703     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | C841     | ECUM1H080DCN | C.CAPACITOR CH 50V 80P   | 1   |         |
| C704, 05 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         | C842     | ECUM1H620JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
| C706     | ECUM1H330JCN | C.CAPACITOR CH 50V 33P   | 1   |         | C843     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C725     | ECUM1H180JCN | C.CAPACITOR CH 50V 18P   | 1   |         | C844     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C726     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | C845     | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 1   |         |
| C727     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | C846     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |
| C728     | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |         |          |              |                          |     |         |
| C729     | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |          |              |                          |     |         |
| C730, 31 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |          |              |                          |     |         |
| C732     | ECUM1H01JCN  | C.CAPACITOR CH 50V 100P  | 1   |         | D1       | MA151WK      | DIODE                    | 1   |         |
| C733     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         |          | MA151WA      | DIODE                    | 1   |         |
| C734     | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         | D3       | MA151WK      | DIODE                    | 1   |         |
| C735     | ECBA1AU101   | E.CAPACITOR 10V 100U     | 1   |         | D201     | MA151WK      | DIODE                    | 1   |         |
| C736     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | D301     | MA151WK      | DIODE                    | 1   |         |
| C737     | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         | D303     | MA151K       | DIODE                    | 1   |         |
| C738     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | D305-07  | MA151WK      | DIODE                    | 3   |         |
| C740-42  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         | D308, 09 | MA151WA      | DIODE                    | 2   |         |
| C744     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | D701     | MA151WK      | DIODE                    | 1   |         |
| C745     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         | D702, 03 | MA151K       | DIODE                    | 2   |         |
| C746     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         | D705, 06 | MA151WK      | DIODE                    | 2   |         |



| Ref.No.  | Part No.  | Part Name & Description | Pcs      | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-----------|-------------------------|----------|---------|---------|-------------|--------------------------|-----|---------|
| Q213     | 2SA1226   | TRANSISTOR              | 1        |         | R4, R5  | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 2   |         |
| Q214     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C)  |         | R6      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q215     | 2SC3757   | TRANSISTOR              | 1 (Q,R)  |         | R7      | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| Q216     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C)  |         | R8      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q217     | 2SC3757   | TRANSISTOR              | 1 (Q,R)  |         | R9      | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| Q218     | 2SA1226   | TRANSISTOR              | 1        |         | R10     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q219     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C)  |         | R11     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q301-04  | 2SC2295-B | TRANSISTOR CHIP         | 4 (B,C)  |         | R12     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q313, 14 | 2SC2295-B | TRANSISTOR CHIP         | 2 (B,C)  |         | R13     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q315     | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C)  |         | R14, 15 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| Q316     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C)  |         | R16     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q317, 18 | 2SA1022-B | TRANSISTOR CHIP         | 2 (B,C)  |         | R17     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| Q319     | IM04      | TRANSISTOR              | 1        |         | R18     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q320     | UN2113    | TRANSISTOR-RESISTOR     | 1        |         | R19     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q324     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C)  |         | R20     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| Q326     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C)  |         | R27     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q327     | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C)  |         | R28, 29 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 2   |         |
| Q329-38  | 2SC2295-B | TRANSISTOR CHIP         | 10 (B,C) |         | R30, 31 | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 2   |         |
| Q339, 40 | UN2113    | TRANSISTOR-RESISTOR     | 2        |         | R32, 33 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| Q341     | 2SA1462   | TRANSISTOR              | 1        |         | R34, 35 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         |
| Q342, 43 | 2SC3757   | TRANSISTOR              | 2 (Q,R)  |         | R36     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| Q344     | 2SC2295-B | TRANSISTOR CHIP         | 1 (B,C)  |         | R37     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| Q345     | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C)  |         | R38     | VRE0034E43A | M.RESISTOR 1/10W         | 1   |         |
| Q346     | 2SC2480   | TRANSISTOR              | 1        |         | R39     | VRE0034E82A | M.RESISTOR 1/10W         | 1   |         |
| Q347     | 2SA1462   | TRANSISTOR              | 1        |         | R40, 41 | VRE0034E89A | M.RESISTOR CH 1/10W 825  | 2   |         |
| Q348     | 2SC2480   | TRANSISTOR              | 1        |         | R42     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q349     | 2SA1226   | TRANSISTOR              | 1        |         | R43     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| Q356-61  | UN2113    | TRANSISTOR-RESISTOR     | 6        |         | R44     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| Q376     | 2SA1462   | TRANSISTOR              | 1        |         | R45     | VRE0034E26A | M.RESISTOR CH 1/10W 182  | 1   |         |
| Q377     | 2SA1226   | TRANSISTOR              | 1        |         | R46     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q378     | 2SC3757   | TRANSISTOR              | 1 (Q,R)  |         | R47     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q379     | 2SC2480   | TRANSISTOR              | 1        |         | R48     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| Q382-84  | 2SC3757   | TRANSISTOR              | 3 (Q,R)  |         | R49     | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| Q385, 86 | 2SC2295-B | TRANSISTOR CHIP         | 2 (B,C)  |         | R50     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q387     | 2SA1022-B | TRANSISTOR CHIP         | 1 (B,C)  |         | R51     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q388     | 2SD601-R  | TRANSISTOR CHIP         | 1 (Q,R)  |         | R52     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q389     | 2SB709-R  | TRANSISTOR CHIP         | 1 (Q,R)  |         | R53     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| Q390     | 2SA1226   | TRANSISTOR              | 1        |         | R54     | ERJ6GEYJ225 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q391, 92 | 2SD601-R  | TRANSISTOR CHIP         | 2 (Q,R)  |         | R55, 56 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| Q393     | 2SB709-R  | TRANSISTOR CHIP         | 1 (Q,R)  |         | R57     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q701, 02 | 2SA1022-B | TRANSISTOR CHIP         | 2 (B,C)  |         | R58     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |



| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|---------|--------------|---------------------------|-----|---------|
| R102    | ERJ6GEY472   | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R103    | ERJ6GEY182   | M.RESISTOR CH 1/10W 1.8K  | 1   |         |
| R104    | ERJ6GEY104   | M.RESISTOR CH 1/10W 100K  | 1   |         |
| R105    | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R106    | ERD5TJ272    | C.RESISTOR 1/4W 2.7K      | 1   |         |
| R201    | ERJ6GEY471   | M.RESISTOR CH 1/10W 470   | 1   |         |
| R202    | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 1   |         |
| R203    | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K  | 1   |         |
| R204    | VRE0034E51A  | M.RESISTOR CH 1/10W 357   | 1   |         |
| R205    | ERJ6GEYJ151  | M.RESISTOR CH 1/10W 150   | 1   |         |
| R206    | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 1   |         |
| R207    | ERJ6GEYJ151  | M.RESISTOR CH 1/10W 150   | 1   |         |
| R208    | VRE0034E51A  | M.RESISTOR CH 1/10W 357   | 1   |         |
| R209,10 | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 2   |         |
| R211,12 | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 2   |         |
| R213,14 | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K  | 2   |         |
| R215    | VRE0034E43A  | M.RESISTOR 1/10W          | 1   |         |
| R216    | ERJ6GEYJ273  | M.RESISTOR CH 1/10W 27K   | 1   |         |
| R217    | VRE0034E82A  | M.RESISTOR 1/10W          | 1   |         |
| R218    | ERJ6GEY471   | M.RESISTOR CH 1/10W 470   | 1   |         |
| R219    | VRE0034E89A  | M.RESISTOR CH 1/10W 825   | 1   |         |
| R220    | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         |
| R221    | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R222    | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R223    | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         |
| R224    | VRE0034E26A  | M.RESISTOR CH 1/10W 182   | 1   |         |
| R225    | VRE0034E51A  | M.RESISTOR CH 1/10W 357   | 1   |         |
| R231    | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R232    | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 1   |         |
| R233    | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R234    | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K   | 1   |         |
| R235,36 | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220   | 2   |         |
| R237,38 | ERJ6GEYJ183  | M.RESISTOR CH 1/10W 18K   | 2   |         |
| R239,40 | ERJ6GEYJ273  | M.RESISTOR CH 1/10W 27K   | 2   |         |
| R241    | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680   | 1   |         |
| R242    | VRE0034E26A  | M.RESISTOR CH 1/10W 182   | 1   |         |
| R243    | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R244    | ERJ6GEYK475  | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R245    | VRE0034E26A  | M.RESISTOR CH 1/10W 182   | 1   |         |
| R246    | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R247    | ERJ6GEYJ563  | M.RESISTOR CH 1/10W 56K   | 1   |         |
| R248    | ERJ6GEYJ153  | M.RESISTOR CH 1/10W 15K   | 1   |         |
| R249    | VRE0034E751  | M.RESISTOR CH 1/10W 750   | 1   |         |
| R250    | VRE0034E278  | M.RESISTOR CH 1/10W 1.87K | 1   |         |
| R251    | ERJ6GEYK56   | M.RESISTOR CH 1/10W 5.6   | 1   |         |
| R252    | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R253    | ERJ6GEYJ272  | M.RESISTOR CH 1/10W 2.7K  | 1   |         |
| R254    | VRE006607103 | M.RESISTOR                | 1   |         |
| R255,56 | VRE006639680 | M.RESISTOR                | 2   |         |
| R257    | ERJ6GEYJ154  | M.RESISTOR CH 1/10W 150K  | 1   |         |
| R258    | ERJ6GEYJ184  | M.RESISTOR CH 1/10W 180K  | 1   |         |
| R259    | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R260    | ERJ6GEYJ680  | M.RESISTOR CH 1/10W 68    | 1   |         |
| R261    | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         |
| R262    | ERJ6GEY471   | M.RESISTOR CH 1/10W 470   | 1   |         |
| R263    | ERJ6GEYJ391  | M.RESISTOR CH 1/10W 390   | 1   |         |
| R264    | ERJ6GEYJ240  | M.RESISTOR CH 1/10W 24    | 1   |         |
| R265    | ERJ6GEY471   | M.RESISTOR CH 1/10W 470   | 1   |         |
| R266    | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         |
| R267,68 | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 2   |         |
| R269,70 | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 2   |         |
| R271    | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R272    | VRE0034E51A  | M.RESISTOR CH 1/10W 357   | 1   |         |
| R273    | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R274    | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 1   |         |
| R275    | ERJ6GEYJ682  | M.RESISTOR CH 1/10W 6.8K  | 1   |         |
| R276    | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K  | 1   |         |
| R277    | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R279,80 | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47    | 2   |         |
| R281    | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R282,83 | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100   | 2   |         |
| R284    | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K  | 1   |         |
| R285    | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K  | 1   |         |
| R286    | VRE0034E51A  | M.RESISTOR CH 1/10W 357   | 1   |         |
| R287    | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K    | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R288    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R290    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R291    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R292    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R293    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R294    | VRE0034E26A | M.RESISTOR CH 1/10W 182  | 1   |         |
| R301    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R302    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R303    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R304    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R305    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R306    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R307    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R308    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R309    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R310    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R332    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R333,34 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R335,36 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R337,38 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R339,40 | VRE0034E43A | M.RESISTOR 1/10W         | 2   |         |
| R341    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R342    | VRE0034E43A | M.RESISTOR 1/10W         | 1   |         |
| R343    | VRE0034E89A | M.RESISTOR CH 1/10W 825  | 1   |         |
| R344    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R345    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R346    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R347    | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R348    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R349    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R350,51 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R352    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R353    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R354    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R355    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R356    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R357    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R358    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R359    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R360,61 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R362    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R363,64 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R365    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R366    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R367    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R368    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R369    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R370    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R371    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R394    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R395    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R396    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R397    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R398    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R399,00 | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 2   |         |
| R401    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R402    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R403    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R404    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R405    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R406    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R407    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R408    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R409    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R410    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R411    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R412    | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R413    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R414    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R415    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R426    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R427-34 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 8   |         |
| R435,36 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R437    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R438,39 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |

| Ref.No. | Part No.    | Part Name & Description   | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|---------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| R440    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R546    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R441.42 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         | R561-63 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
| R443.44 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         | R564    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R445    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R565    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R446    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         | R566    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R447.48 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         | R567    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R449    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R620    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R450.51 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         | R624-26 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 30K  | 3   |         |
| R452.53 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | R627    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R454-65 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 12  |         | R628    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R466    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         | R629    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R467.68 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 2   |         | R630.31 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R469.70 | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68    | 2   |         | R636    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R471.72 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         | R637    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R473    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R639.40 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R474    | BRDS2J222   | C.RESISTOR 1/W 2.2K       | 1   |         | R644.45 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R475    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R646    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R477    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R647.48 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 2   |         |
| R478    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R649    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R479    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R650-53 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 4   |         |
| R480.81 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 2   |         | R656    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R482    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R660    | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R483.84 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K   | 2   |         | R663    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R485.86 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 2   |         | R664    | ERJ6GEYK5R6 | M.RESISTOR CH 1/10W 5.6  | 1   |         |
| R487    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R665    | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1   |         |
| R488    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R668    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R489    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R669    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R490    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R670    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R491    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R671    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R492    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R672    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R493    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R673    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R494.95 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         | R674    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R496    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R675.76 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R497    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R677    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R498    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R678    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R499    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R679    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R500    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R680    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R501    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R681    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R502    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R682    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R503    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         | R701    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R504    | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K  | 1   |         | R702    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R505.06 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 2   |         | R703    | VRE0034E89A | M.RESISTOR CH 1/10W 825  | 1   |         |
| R508    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R704    | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R509    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R705    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R510    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R712    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R511    | VRE0034E27B | M.RESISTOR CH 1/10W 1.87K | 1   |         | R723.24 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R512    | VRE0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         | R725    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R513    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R726    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R514    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R727    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R515    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         | R728.29 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R516    | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 1   |         | R730    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R518    | ERJ6GEYJ431 | M.RESISTOR CH 1/10W 430   | 1   |         | R731    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R519    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R732.33 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         |
| R520    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R734    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R521    | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         | R735    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R522    | VRE0034E26A | M.RESISTOR CH 1/10W 182   | 1   |         | R736    | VRE0034E43A | M.RESISTOR 1/10W         | 1   |         |
| R523    | VRE0034E51A | M.RESISTOR CH 1/10W 357   | 1   |         | R737    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R524    | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | R738    | VRE0034E89A | M.RESISTOR CH 1/10W 825  | 1   |         |
| R525    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | R739    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R526.27 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | R740    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R528    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R741    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R529    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R742    | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R530    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         | R743    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R531.32 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 2   |         | R744    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R533.34 | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 2   |         | R745.46 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R535.36 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 2   |         | R747    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R537    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R748    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R538    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R749    | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R539    | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 1   |         | R750    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R540    | VRE0034E24A | M.RESISTOR 1/10W          | 1   |         | R751    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R541    | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | R752    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R542    | VRE0034E51A | M.RESISTOR CH 1/10W 357   | 1   |         | R753    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R543    | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | R754    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R544    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R755    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R545    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R756    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |





| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks    | Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|------------|----------|--------------|---------------------------|-----|---------|
|          | VEP83098F    | P.C. BOARD W/COMPONENT    |     | FOR AU-63F | C412     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
|          |              | W3 MOD & DEMOD            |     |            | C413     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
|          |              |                           |     |            | C414     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
|          |              |                           |     |            | C415     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
|          |              |                           |     |            | C416     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         |
|          |              |                           |     |            | C417, 18 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
|          |              |                           |     |            | C419     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
|          |              |                           |     |            | C420     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
|          |              |                           |     |            | C421     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
|          |              |                           |     |            | C422     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
|          |              | CAPACITORS                |     |            | C423     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C62      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C424     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C63      | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |            | C425     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C64      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C426     | VCM0044      | M. CAPACITOR 130P         | 1   |         |
| C65      | ECSF1CE106   | E. CAPACITOR 16V 10U      | 1   |            | C427     | VCM0023      | M. CAPACITOR 379P         | 1   |         |
| C66      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C428     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C67      | ECSF1CE106   | E. CAPACITOR 16V 10U      | 1   |            | C429     | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |         |
| C68      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C430     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C69, 70  | ECSF1CE106   | E. CAPACITOR 16V 10U      | 2   |            | C431     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C71      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C432     | ECEA0JU221   | E. CAPACITOR 6.3V 220U    | 1   |         |
| C72      | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |            | C433     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C301, 02 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            | C434     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C303     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |            | C435     | ECUM1H020CCN | C. CAPACITOR CH 50V 2P    | 1   |         |
| C304, 05 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            | C436, 37 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C306     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |            | C440     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C307     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C441     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C308, 09 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            | C442, 43 | ECEA1CU221   | E. CAPACITOR 16V 220U     | 2   |         |
| C310     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C444, 45 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C311     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C446, 47 | VCM0027      | M. CAPACITOR              | 2   |         |
| C316     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C448     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C322     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C453     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C325     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C467     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C342     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C468     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C343     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |            | C470     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C344     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |            | C471     | ECUM1H060CCN | C. CAPACITOR CH 50V 6P    | 1   |         |
| C345     | ECUM1H100CCN | C. CAPACITOR CH 50V 10P   | 1   |            | C472     | VCM0037F062  | C. CAPACITOR 50V 62P      | 1   |         |
| C346     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C473     | ECUM1H182JN  | C. CAPACITOR CH 50V 1800P | 1   |         |
| C347, 48 | ECEA1AU101   | E. CAPACITOR 10V 100U     | 2   |            | C474     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C349     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C475     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C350     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |            | C476     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C351, 52 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            | C477     | ECUM1H050CCN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C353     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |            | C478     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C354, 55 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            | C701, 02 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C356     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C703     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C357     | ECEA1H02R2   | E. CAPACITOR 50V 2.2U     | 1   |            | C704, 05 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C358     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C706     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C359     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C714     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C360     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |            | C725     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
| C363     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C726     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C373     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C727     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C374     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C728     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C375     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C729     | ECUM1H121JCN | C. CAPACITOR CH 50V 120P  | 1   |         |
| C376-78  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |            | C730, 31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C380     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C732     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C381     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C733     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C382     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C734     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C383     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C735     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C386     | ECUM1H050CCN | C. CAPACITOR CH 50V 50P   | 1   |            | C736     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C387     | ECUM1H100CCN | C. CAPACITOR CH 50V 10P   | 1   |            | C737     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C389     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |            | C738     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C391     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |            | C740-42  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C392     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C744     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C393     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C745     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C394     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C746     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C395     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C747     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C396, 97 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            | C750     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C398     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |            | C751     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C399     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C752     | ECUM1H152JN  | C. CAPACITOR CH 50V 1500P | 1   |         |
| C400     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C753     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C401-03  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |            | C754     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C404     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C755     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C405-07  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |            | C756     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C408, 09 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |            | C757     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |         |
| C410     | ECEA1AU471   | E. CAPACITOR 10V 470U     | 1   |            | C758     | ECUM1H050CCN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C411     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C759     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |

| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description | Pcs    | Remarks |
|---------|--------------|---------------------------|-----|---------|----------|--------------|-------------------------|--------|---------|
| C760    | ECUMH1000CN  | C. CAPACITOR CH 50V 10P   | 1   |         | IC14     | AN78N05      | IC                      | 1      |         |
| C762    | ECUMH221JCN  | C. CAPACITOR CH 50V 220P  | 1   |         | IC15     | AN78N09      | IC                      | 1      |         |
| C763    | ECUMH101JCN  | C. CAPACITOR CH 50V 100P  | 1   |         | IC301    | AN6308S      | IC                      | 1      |         |
| C764-66 | ECUMH103KCN  | C. CAPACITOR CH 50V 0.01U | 3   |         | IC306    | NJM1496M     | IC                      | 1      |         |
| C767    | ECBA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | IC307    | UPD4053BG    | IC                      | 1      |         |
| C768,69 | ECUMH103KCN  | C. CAPACITOR CH 50V 0.01U | 2   |         | IC309    | RO0828M      | IC                      | 1      |         |
| C770    | ECUMH220JCN  | C. CAPACITOR CH 50V 22P   | 1   |         | IC310    | AN6308S      | IC                      | 1      |         |
| C771    | ECUMH471JCN  | C. CAPACITOR CH 50V 470P  | 1   |         | IC311-15 | 10116D       | III                     | 5      |         |
| C772    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC316    | SN74LS123NS  | IC                      | 1      |         |
| C773-75 | ECUMH103KCN  | C. CAPACITOR CH 50V 0.01U | 3   |         | IC317    | MC74HC00AF   | IC                      | 1      |         |
| C776    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC319    | NE5539D      | IC                      | 1      |         |
| C777    | ECBA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | IC326    | RO0828M      | IC                      | 1      |         |
| C778,79 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | IC327    | AN6308S      | IC                      | 1      |         |
| C780,81 | ECUMH390JCN  | C. CAPACITOR CH 50V 39P   | 2   |         | IC701    | AN6308S      | IC                      | 1      |         |
| C782    | ECBA1A071    | E. CAPACITOR 10V 470U     | 1   |         | IC705    | NJM1496M     | IC                      | 1      |         |
| C783    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC706    | UPD4053BG    | IC                      | 1      |         |
| C784    | ECUMH221JCN  | C. CAPACITOR CH 50V 220P  | 1   |         | IC707    | AN6308S      | IC                      | 1      |         |
| C785    | ECBA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | IC708-12 | 10116D       | IC                      | 5      |         |
| C786    | ECUMH121JCN  | C. CAPACITOR CH 50V 120P  | 1   |         | IC716    | NE5539D      | IC                      | 1      |         |
| C787    | ECUMH1000CN  | C. CAPACITOR CH 50V 10P   | 1   |         | IC723    | AN6308S      | IC                      | 1      |         |
| C788    | ECUMH331JCN  | C. CAPACITOR CH 50V 330P  | 1   |         |          |              |                         |        |         |
| C789,90 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |          |              |                         |        |         |
| C791    | ECUMH331JCN  | C. CAPACITOR CH 50V 330P  | 1   |         | L301     | VLQEL05S101K | COIL                    | 100UH  | 1       |
| C792    | ECUMH220JCN  | C. CAPACITOR CH 50V 22P   | 1   |         | L302,03  | VLQEL05S100J | COIL                    | 10UH   | 2       |
| C793    | ECUMH660JCN  | C. CAPACITOR CH 50V 68P   | 1   |         | L304     | VLQEL05S101K | COIL                    | 100UH  | 1       |
| C794    | ECUMH330JCN  | C. CAPACITOR CH 50V 33P   | 1   |         | L308     | VLQEL05S3R3J | COIL                    | 3.3UH  | 1       |
| C796    | ECBA1C0100   | E. CAPACITOR 16V 10U      | 1   |         | L309,10  | VLQEL05S101K | COIL                    | 100UH  | 2       |
| C797    | VOM0023      | M. CAPACITOR 379P         | 1   |         | L311     | VLQEL05S330J | COIL                    | 330P   | 1       |
| C799    | ECBA0J0221   | E. CAPACITOR 6.3V 220U    | 1   |         | L312     | VLQEL05S2R7J | COIL                    | 2.7UH  | 1       |
| C800    | ECUMH470JCN  | C. CAPACITOR CH 50V 47P   | 1   |         | L313     | VLQEL05S101K | COIL                    | 100UH  | 1       |
| C801    | ECUMH0200CN  | C. CAPACITOR CH 50V 2P    | 1   |         | L314     | VLQEL05S8R2J | COIL                    | 8.2UH  | 1       |
| C802    | ECUMH121JCN  | C. CAPACITOR CH 50V 120P  | 1   |         | L316-18  | VLQEL05S101K | COIL                    | 100UH  | 3       |
| C803,04 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | L320,21  | VLQEL05S2R2J | COIL                    | 2.2UH  | 2       |
| C805    | ECUMH470JCN  | C. CAPACITOR CH 50V 47P   | 1   |         | L322     | VLQEL05S180J | COIL                    | 18UH   | 1       |
| C808    | ECBA1C0221   | E. CAPACITOR 16V 220U     | 1   |         | L323     | VLQEL05S101K | COIL                    | 100UH  | 1       |
| C810    | ECBA1C0221   | E. CAPACITOR 16V 220U     | 1   |         | L324     | VLQEL05S180J | COIL                    | 1UH    | 1       |
| C811,12 | ECUMH103KCN  | C. CAPACITOR CH 50V 0.01U | 2   |         | L325-27  | VLQEL05S101K | COIL                    | 100UH  | 3       |
| C813,14 | VOM0027      | M. CAPACITOR              | 1   |         | L328     | VLQEL05S6R8J | COIL                    | 6.8UH  | 1       |
| C815    | ECBA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | L329     | VLQEL05S101K | COIL                    | 100UH  | 1       |
| C821    | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | L330     | VLQEL05S3R3J | COIL                    | 3.3UH  | 1       |
| C836    | ECUMH470JCN  | C. CAPACITOR CH 50V 47P   | 1   |         | L333     | VLQEL05S101K | COIL                    | 100UH  | 1       |
| C837    | ECUMH0600CN  | C. CAPACITOR CH 50V 6P    | 1   |         | L334     | VLQEL05S6R8K | COIL                    | 6.8UH  | 1       |
| C838,39 | ECUMH1000CN  | C. CAPACITOR CH 50V 10P   | 2   |         | L345     | VLQEL05S180J | COIL                    | 1UH    | 1       |
| C840    | VCC0037P062  | C. CAPACITOR 50V 62P      | 1   |         | L346     | VLQEL05S8R7K | COIL                    | 0.47UH | 1       |
| C843    | ECBA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | L347     | VLQEL05S101K | COIL                    | 100UH  | 1       |
| C844    | ECUMH103KCN  | C. CAPACITOR CH 50V 0.01U | 1   |         | L701     | VLQEL05S101K | COIL                    | 100UH  | 1       |
| C845    | ECUMH0500CN  | C. CAPACITOR CH 50V 50P   | 1   |         | L702     | VLQEL05S150J | COIL                    | 15UH   | 1       |
| C846    | ECBA1A0101   | E. CAPACITOR 10V 100U     | 1   |         | L709     | VLQEL05S4R7J | COIL                    | 4.7UH  | 1       |
|         |              |                           |     |         | L710     | VLQEL05S101K | COIL                    | 100UH  | 1       |
|         |              |                           |     |         | L711     | VLQEL05S560J | COIL                    | 56UH   | 1       |
|         |              |                           |     |         | L712     | VLQEL05S101K | COIL                    | 100UH  | 1       |
| D301    | PA151WK      | DIODE                     | 1   |         | L713     | VLQEL05S3R9J | COIL                    | 3.9UH  | 1       |
| D303,04 | PA151K       | DIODE                     | 2   |         | L715     | VLQEL05S101K | COIL                    | 100UH  | 1       |
| D305-07 | PA151WK      | DIODE                     | 3   |         | L716     | VLQEL05S471J | COIL                    | 470UH  | 1       |
| D308,09 | PA151WA      | DIODE                     | 2   |         | L717     | VLQEL05S330J | COIL                    | 33UH   | 1       |
| D701    | PA151WK      | DIODE                     | 1   |         | L718     | VLQEL05S3R3J | COIL                    | 3.3UH  | 1       |
| D702-04 | PA151K       | DIODE                     | 3   |         | L719     | VLQEL05S8R2J | COIL                    | 8.2UH  | 1       |
| D705,06 | PA151WK      | DIODE                     | 2   |         | L720     | VLQEL05S6R8J | COIL                    | 6.8UH  | 1       |
|         |              |                           |     |         | L721     | VLQEL05S4R7J | COIL                    | 4.7UH  | 1       |
|         |              |                           |     |         | L722     | VLQEL05S2R7J | COIL                    | 2.7UH  | 1       |
|         |              |                           |     |         | L723     | VLQEL05S5R6J | COIL                    | 5.6UH  | 1       |
| DL301   | VL00190      | DELAY                     | 1   |         | L724     | VLQEL05S101K | COIL                    | 100UH  | 1       |
| DL701   | VL00199      | DELAY                     | 1   |         | L725     | VLQEL05S1R5J | COIL                    | 1.5UH  | 1       |
|         |              |                           |     |         | L726-28  | VLQEL05S101K | COIL                    | 100UH  | 3       |
|         |              |                           |     |         | L729     | VLQEL05S150J | COIL                    | 15UH   | 1       |
| FL302   | VL00658      | FILTER                    | 1   |         | L731     | VLQEL05S101K | COIL                    | 100UH  | 1       |
| FL303   | VL00712      | FILTER                    | 1   |         | L732     | VLQEL05S6R8K | COIL                    | 6.8UH  | 1       |
| FL701   | VL00652      | FILTER                    | 1   |         | L743     | VLQEL05S181J | COIL                    | 180UH  | 1       |
|         |              |                           |     |         | L746     | VLQEL05S101K | COIL                    | 100UH  | 1       |
|         |              |                           |     |         |          |              |                         |        |         |
| IC10    | AN78N09      | IC                        | 1   |         |          |              |                         |        |         |
| IC11,12 | AN78N05F     | IC                        | 2   |         | Q301-04  | 2SC2295-B    | TRANSISTOR CHIP         | 4      | (B,C)   |
| IC13    | AN78N05F     | IC                        | 1   |         | Q313,14  | 2SC2295-B    | TRANSISTOR CHIP         | 2      | (B,C)   |





| Ref. No. | Part No.    | Part Name & Description   | Pcs | Remarks | Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|---------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R446     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         | R566     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R447.48  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         | R567     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R449     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R620     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R450.51  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         | R624-26  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R452.53  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | R627     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R454-65  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 12  |         | R628     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R466     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         | R629     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R467.68  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 2   |         | R630.31  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R469.70  | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68    | 2   |         | R636     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R471.72  | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         | R637     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R473     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R639.40  | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R474     | ERJ6GEYJ222 | C.RESISTOR 1/4W 2.2K      | 1   |         | R644.45  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R475     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R646     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R477     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R647.48  | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 2   |         |
| R478     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R649     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R479     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R650-53  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 4   |         |
| R480.81  | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 2   |         | R656     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R482     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R657     | ERD52T0     | C.RESISTOR 1/4W 0        | 1   |         |
| R483.84  | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K   | 2   |         | R660     | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R485.86  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 2   |         | R663     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R487     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R664     | ERJ6GEYJ5R6 | M.RESISTOR CH 1/10W 5.6  | 1   |         |
| R488     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R665     | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1   |         |
| R489     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R668     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R490     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R669     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R491     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R670     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R492     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R671     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R493     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R672     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R494.95  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         | R673     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R496     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R674     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R497     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R675.76  | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R498     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R677     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R499     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R678     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R500     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R679     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R501     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R680     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R502     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R681     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R503     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         | R682     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R504     | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K  | 1   |         | R701     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R505.06  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         | R702     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R508     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470   | 1   |         | R703     | VRE0034E89A | M.RESISTOR CH 1/10W 825  | 1   |         |
| R509     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R704     | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R510     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R705     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R511     | VRE0034E27B | M.RESISTOR CH 1/10W 1.87K | 1   |         | R711.12  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R512     | VRE0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         | R723.24  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R513     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R725     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R514     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R726     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R515     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         | R727     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R516     | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 1   |         | R728.29  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R518     | ERJ6GEYJ431 | M.RESISTOR CH 1/10W 430   | 1   |         | R730     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R519     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R731     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R520     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R732.33  | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         |
| R521     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150   | 1   |         | R734     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R522     | VRE0034E26A | M.RESISTOR CH 1/10W 182   | 1   |         | R735     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R523     | VRE0034E51A | M.RESISTOR CH 1/10W 357   | 1   |         | R736     | VRE0034E43A | M.RESISTOR 1/10W         | 1   |         |
| R524     | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | R737     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R525     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | R738     | VRE0034E89A | M.RESISTOR CH 1/10W 825  | 1   |         |
| R526.27  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | R739     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R528     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R740     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R529     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R741     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R530     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         | R742     | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R531.32  | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 2   |         | R743     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R533.34  | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 2   |         | R744     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R535.36  | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 2   |         | R745.46  | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R537     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R747     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R538     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R748     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R539     | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300   | 1   |         | R749     | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R540     | VRE0034E24A | M.RESISTOR 1/10W          | 1   |         | R750     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R541     | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | R751     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R542     | VRE0034E51A | M.RESISTOR CH 1/10W 357   | 1   |         | R752     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R543     | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | R753     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R544     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R754     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R545     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R755     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R546     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R756     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R546-63  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 3   |         | R757     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R564     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R758     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R565     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R759     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |







| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks    | Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|------------|----------|--------------|---------------------------|-----|---------|
|          | VEP309BG     | P.C. BOARD M/COMPONENT    |     | FOR AD-62H | C412     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
|          |              | M3 MOD & DEMOD            |     |            | C413     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
|          |              |                           |     |            | C414     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
|          |              |                           |     |            | C415     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
|          |              |                           |     |            | C416     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         |
|          |              |                           |     |            | C417, 18 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
|          |              |                           |     |            | C419     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
|          |              |                           |     |            | C420     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
|          |              |                           |     |            | C421     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
|          |              |                           |     |            | C422     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
|          |              | CAPACITORS                |     |            | C423     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C62      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C424     | ECBA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C63      | ECBA1CU101   | E. CAPACITOR 16V 100U     | 1   |            | C425     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C64      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C426     | VCM0044      | M. CAPACITOR 130P         | 1   |         |
| C65      | ECBF1CE106   | E. CAPACITOR 16V 10U      | 1   |            | C427     | VCM0023      | M. CAPACITOR 379P         | 1   |         |
| C66      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C428     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C67      | ECBF1CE106   | E. CAPACITOR 16V 10U      | 1   |            | C429     | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |         |
| C68      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C430     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C69, 70  | ECBF1CE106   | E. CAPACITOR 16V 10U      | 2   |            | C431     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C71      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C432     | ECBA1UJ221   | E. CAPACITOR 6.3V 220U    | 1   |         |
| C72      | ECBA1CU101   | E. CAPACITOR 16V 100U     | 1   |            | C433     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C301, 02 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            | C434     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 1   |         |
| C303     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |            | C435     | ECUM1H0200CN | C. CAPACITOR CH 50V 2P    | 1   |         |
| C304, 05 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            | C436, 37 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C306     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |            | C440     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C307     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C441     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C308, 09 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            | C442, 43 | ECBA1CU221   | E. CAPACITOR 16V 220U     | 2   |         |
| C310     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C444, 45 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C311     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C446, 47 | VCM0027      | M. CAPACITOR              | 2   |         |
| C316     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C448     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C322     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C453     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C325     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C467     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C342     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C468     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C343     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |            | C470     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C344     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |            | C471     | ECUM1H0600CN | C. CAPACITOR CH 50V 6P    | 1   |         |
| C345     | ECUM1H1000CN | C. CAPACITOR CH 50V 10P   | 1   |            | C472     | VCM0037P062  | C. CAPACITOR 50V 62P      | 1   |         |
| C346     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C473     | ECUM1H182JCN | C. CAPACITOR CH 50V 1800P | 1   |         |
| C347, 48 | ECBA1AU101   | E. CAPACITOR 10V 100U     | 2   |            | C474     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C349     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C475     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C350     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |            | C476     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C351, 52 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            | C477     | ECUM1H0500CN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C353     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |            | C478     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C354, 55 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            | C701, 02 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C356     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C703     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C357     | ECBA1HJ2R2   | E. CAPACITOR 50V 2.2U     | 1   |            | C704, 05 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C358     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C706     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C359     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C714     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C360     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |            | C725     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         |
| C363     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C726     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C373     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C727     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C374     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C728     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C375     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C729     | ECUM1H21JCN  | C. CAPACITOR CH 50V 120P  | 1   |         |
| C376-78  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |            | C730, 31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C380     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C732     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C381     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C733     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C382     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C734     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C383     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C735     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C386     | ECUM1H0500CN | C. CAPACITOR CH 50V 50P   | 1   |            | C736     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C387     | ECUM1H1000CN | C. CAPACITOR CH 50V 10P   | 1   |            | C737     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C389     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |            | C738     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C391     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |            | C740-42  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C392     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C744     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C393     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C745     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C394     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C746     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C395     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C747     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C396, 97 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |            | C750     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C398     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |            | C751     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C399     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |            | C752     | ECUM1H152JCN | C. CAPACITOR CH 50V 1500P | 1   |         |
| C400     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C753     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C401-03  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |            | C754     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C404     | ECBA1AU101   | E. CAPACITOR 10V 100U     | 1   |            | C755     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C405-07  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 3   |            | C756     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C408, 09 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 2   |            | C757     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |         |
| C410     | ECBA1AU471   | E. CAPACITOR 10V 470U     | 1   |            | C758     | ECUM1H0500CN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C411     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |            | C759     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |





| Ref.No. | Part No.    | Part Name & Description   | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|---------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| R446    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150   | 1   |         | R566    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R447,48 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         | R567    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R449    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R620    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R450,51 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         | R624-26 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R452,53 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | R627    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R454-65 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 12  |         | R628    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R466    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         | R629    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R467,68 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 2   |         | R630,31 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R469,70 | ERJ6GEYJ680 | M.RESISTOR CH 1/10W 68    | 2   |         | R636    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R471,72 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         | R637    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R473    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R639,40 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R474    | ERDS2J222   | C.RESISTOR 1/4W 2.2K      | 1   |         | R644,45 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R475    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R646    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R477    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470   | 1   |         | R647,48 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R478    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R649    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R479    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R650-53 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 4   |         |
| R480,81 | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470   | 2   |         | R656    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R482    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R660    | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R483,84 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K   | 2   |         | R663    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R485,86 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 2   |         | R664    | ERJ6GEYKSR6 | M.RESISTOR CH 1/10W 5.6  | 1   |         |
| R487    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R665    | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1   |         |
| R488    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R668    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R489    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R669    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R490    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R670    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R491    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R671    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R492    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470   | 1   |         | R672    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R493    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R673    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R494,95 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         | R674    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R496    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R675,76 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R497    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R677    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R498    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R678    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R499    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R679    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R500    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R680    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R501    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R681    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R502    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | R682    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R503    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         | R701    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R504    | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K  | 1   |         | R702    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R505,06 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 2   |         | R703    | VRE0034E89A | M.RESISTOR CH 1/10W 825  | 1   |         |
| R508    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470   | 1   |         | R704    | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R509    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R705    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R510    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R711,12 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         |
| R511    | VRE0034E27B | M.RESISTOR CH 1/10W 1.87K | 1   |         | R723,24 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R512    | VRE0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         | R725    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R513    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R726    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R514    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R727    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R515    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K  | 1   |         | R728,29 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R516    | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300   | 1   |         | R730    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R518    | ERJ6GEYG431 | M.RESISTOR CH 1/10W 430   | 1   |         | R731    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R519    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | R732,33 | ERJ6GEYK681 | M.RESISTOR CH 1/10W 680  | 2   |         |
| R520    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R734    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R521    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150   | 1   |         | R735    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R522    | VRE0034E26A | M.RESISTOR CH 1/10W 182   | 1   |         | R736    | VRE0034E43A | M.RESISTOR 1/10W         | 1   |         |
| R523    | VRE0034E51A | M.RESISTOR CH 1/10W 357   | 1   |         | R737    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R524    | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | R738    | VRE0034E89A | M.RESISTOR CH 1/10W 825  | 1   |         |
| R525    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330   | 1   |         | R739    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R526,27 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | R740    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R528    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R741    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R529    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R742    | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R530    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         | R743    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R531,32 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K   | 1   |         | R744    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R533,34 | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K   | 2   |         | R745,46 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R535,36 | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 2   |         | R747    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R537    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R748    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R538    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R749    | VRE0034E51A | M.RESISTOR CH 1/10W 357  | 1   |         |
| R539    | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300   | 1   |         | R750    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R540    | VRE0034E24A | M.RESISTOR 1/10W          | 1   |         | R751    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R541    | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | R752    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R542    | VRE0034E51A | M.RESISTOR CH 1/10W 357   | 1   |         | R753    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R543    | VRE0034E89A | M.RESISTOR CH 1/10W 825   | 1   |         | R754    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R544    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | R755    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R545    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R756    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R546    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R757    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R561-63 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 3   |         | R758    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R564    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R759    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R565    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K   | 1   |         | R760    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |



| Ref.No. | Part No.    | Part Name & Description   | Pcs | Remarks | Ref.No.   | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|-------------|---------------------------|-----|---------|-----------|--------------|--------------------------|-----|---------|
| R761    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R884      | ERJ6GEYJ391  | M.RESISTOR CH 1/10W 390  | 1   |         |
| R762.63 | ERJ6GEYG391 | M.RESISTOR CH 1/10W 390   | 2   |         | R885      | VRE0034E89A  | M.RESISTOR CH 1/10W 825  | 1   |         |
| R764    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R886.87   | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 2   |         |
| R765    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R888      | VRE0034E51A  | M.RESISTOR CH 1/10W 357  | 1   |         |
| R766    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 1   |         | R889      | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 1   |         |
| R767    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R890      | ERJ6GEYJ273  | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R768    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R891      | ERJ6GEYJ183  | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R769    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R892      | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220  | 1   |         |
| R770    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | R893      | ERJ6GEYJ273  | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R771    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R894      | ERJ6GEYJ183  | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R772    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R895      | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220  | 1   |         |
| R773    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | R896      | ERJ6GEYG223  | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R774    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330   | 1   |         | R897      | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R775    | VRE0034E51A | M.RESISTOR CH 1/10W 357   | 1   |         | R898      | VRE0034E24A  | M.RESISTOR CH 1/10W      | 1   |         |
| R776    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R899      | VRE0034E89A  | M.RESISTOR CH 1/10W 825  | 1   |         |
| R777    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R900      | ERJ6GEYG301  | M.RESISTOR CH 1/10W 300  | 1   |         |
| R778    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R901      | VRE0034E51A  | M.RESISTOR CH 1/10W 357  | 1   |         |
| R789    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R902      | VRE0034E89A  | M.RESISTOR CH 1/10W 825  | 1   |         |
| R790-97 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | R903      | ERJ6GEYJ392  | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R798.99 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         | R904      | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R800    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R905      | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R801.02 | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470   | 2   |         | R964      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1   |         |
| R803    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R965      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R804.05 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680   | 2   |         | R966-68   | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R806.07 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         | R969.70   | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R808    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R971      | ERJ6GEYG223  | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R809    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150   | 1   |         | R975.76   | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 2   |         |
| R810.11 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         | R977      | ERJ6GEYJ682  | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R812    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R978.79   | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220  | 2   |         |
| R813.14 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 2   |         | R980      | ERJ6GEYJ682  | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R815.16 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 2   |         | R981.82   | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 2   |         |
| R817-28 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 12  |         | R985      | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R829    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K   | 1   |         | R986.87   | VRE0034E51A  | M.RESISTOR CH 1/10W 357  | 2   |         |
| R830.31 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 2   |         | R989      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R832.33 | ERJ6GEYJ150 | M.RESISTOR CH 1/10W 15    | 2   |         | R991      | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 0    | 1   |         |
| R834.35 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 2   |         | R993      | VRE0034E51A  | M.RESISTOR CH 1/10W 357  | 1   |         |
| R836    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         | R996      | ERJ6GEYJ220  | M.RESISTOR CH 1/10W 22   | 1   |         |
| R837    | ERDS2TJ222  | C.RESISTOR 1/4W 2.2K      | 1   |         | R1001     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R838-40 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 3   |         | R1002     | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R842    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R1003     | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 1   |         |
| R843.44 | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470   | 1   |         | R1004     | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R845    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         | R1005     | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R846.47 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K   | 2   |         | R1006     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1   |         |
| R848.49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 2   |         | R1007     | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R850    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         | R1008.09  | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R851    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         |           |              |                          |     |         |
| R852    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         |           |              |                          |     |         |
| R853    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47    | 1   |         |           |              |                          |     |         |
| R854    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470   | 1   |         | SW304     | VSS0126      | SWITCH                   | 1   |         |
| R855    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K  | 1   |         | SW704     | VSS0126      | SWITCH                   | 1   |         |
| R856.57 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 2   |         |           |              |                          |     |         |
| R858    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K  | 1   |         |           |              |                          |     |         |
| R859    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         |           |              |                          |     |         |
| R860    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |           |              |                          |     |         |
| R861    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | TP301.02  | VJR0646      | TEST POINT               | 1   |         |
| R862    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K   | 1   |         | TP306-11  | VJR0646      | TEST POINT               | 6   |         |
| R863    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         | TP315     | VJR0646      | TEST POINT               | 1   |         |
| R864    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K  | 1   |         | TP701-06  | VJR0646      | TEST POINT               | 8   |         |
| R865    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K   | 1   |         | TPG301-03 | VJR0646      | TEST POINT               | 3   |         |
| R866    | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K  | 1   |         | TPG701-03 | VJR0646      | TEST POINT               | 3   |         |
| R867    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K   | 1   |         |           |              |                          |     |         |
| R868    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470   | 1   |         |           |              |                          |     |         |
| R870    | ERJ6GEYG471 | M.RESISTOR CH 1/10W 470   | 1   |         |           |              |                          |     |         |
| R871    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220   | 1   |         | VC301     | ECV12W10X53T | TRIMMER                  | 10P | 1       |
| R872    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K  | 1   |         | VC701     | ECV12W20X53T | V.CAPACITOR              | 20P | 1       |
| R873    | VRE0034E27B | M.RESISTOR CH 1/10W 1.87K | 1   |         |           |              |                          |     |         |
| R874    | VRE0034E751 | M.RESISTOR CH 1/10W 750   | 1   |         |           |              |                          |     |         |
| R875    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |           |              |                          |     |         |
| R876    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K    | 1   |         | VL301.02  | EIR70F016B   | COIL                     |     | 2       |
| R878    | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300   | 1   |         | VL701     | EIR70F016B   | COIL                     |     | 1       |
| R879    | ERJ6GEYG431 | M.RESISTOR CH 1/10W 430   | 1   |         | VL702     | EIR70F015B   | COIL                     |     | 1       |
| R880    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K  | 1   |         |           |              |                          |     |         |
| R881    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100   | 1   |         |           |              |                          |     |         |
| R882    | ERJ6GEYG151 | M.RESISTOR CH 1/10W 150   | 1   |         | VR301     | VRV0109B501  | V.RESISTOR               | 500 | 1       |
| R883    | VRE0034E26A | M.RESISTOR CH 1/10W 182   | 1   |         | VR302     | VRV0109H102  | V.RESISTOR               | 1K  | 1       |





| Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks    | Ref.No. | Part No.     | Part Name & Description  | Pcs | Remarks |
|---------|--------------|--------------------------|-----|------------|---------|--------------|--------------------------|-----|---------|
|         | VEP63173A    | P.C. BOARD W/COMPONENT   |     | FOR AU-65H | C202    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              | W4 DEC & CTOM            |     |            | C203    | ECBAJU101    | E.CAPACITOR 6.3V 100U    | 1   |         |
|         |              |                          |     |            | C204    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
|         |              |                          |     |            | C205    | ECBAJU101    | E.CAPACITOR 6.3V 100U    | 1   |         |
|         |              |                          |     |            | C206    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
|         |              |                          |     |            | C207-09 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         |
|         |              |                          |     |            | C210    | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 1   |         |
|         |              |                          |     |            | C211-28 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 18  |         |
|         |              |                          |     |            | C241    | ECUM1H102JCN | C.CAPACITOR CH 50V 1000P | 1   |         |
|         |              |                          |     |            | C291,92 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
|         |              | CAPACITORS               |     |            | C321    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C1-C3   | ECBAJN101S   | E.CAPACITOR 6.3V 100U    | 3   |            | C322    | ECBAJU330    | E.CAPACITOR 6.3V 33U     | 1   |         |
| C4,C5   | ECUM1H050DCN | C.CAPACITOR CH 50V 50P   | 2   |            | C323    | ECBAJU471    | E.CAPACITOR 6.3V 470U    | 1   |         |
| C6      | ECBA1HN010S  | E.CAPACITOR 50V 1U       | 1   |            | C324    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C7      | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |            | C325,26 | ECUM1H104KBN | C.CAPACITOR CH 50V 0.1U  | 2   |         |
| C8      | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |            | C327    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |         |
| C9      | ECBA1CU101   | E.CAPACITOR 16V 100U     | 1   |            | C328    | ECBAJU330    | E.CAPACITOR 6.3V 33U     | 1   |         |
| C10     | ECBA1CU101   | E.CAPACITOR 16V 100U     | 1   |            | C329    | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |         |
| C11     | ECUM1E104ZFN | C.CAPACITOR CH 25V 0.1U  | 1   |            | C330    | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
| C12     | ECUM1H100DCN | C.CAPACITOR CH 50V 10P   | 1   |            | C331    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C13,14  | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 2   |            | C332,33 | ECBAJN101S   | E.CAPACITOR 6.3V 100U    | 2   |         |
| C15     | ECUM1H271JCN | C.CAPACITOR CH 50V 270P  | 1   |            | C334    | ECBA1CU221   | E.CAPACITOR 16V 220U     | 1   |         |
| C16     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |            | C335    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C17,18  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |            | C336    | ECBA1CU221   | E.CAPACITOR 16V 220U     | 1   |         |
| C19     | ECBA1CU470   | E.CAPACITOR 16V 47U      | 1   |            | C337    | ECUM1H390JCN | C.CAPACITOR CH 50V 39P   | 1   |         |
| C20,21  | ECBAJU330    | E.CAPACITOR 6.3V 33U     | 2   |            | C351    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C22     | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |            | C352    | ECBAJU330    | E.CAPACITOR 6.3V 33U     | 1   |         |
| C23     | ECBAJU330    | E.CAPACITOR 6.3V 33U     | 1   |            | C353    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C24     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |            | C354,55 | ECUM1H104KBN | C.CAPACITOR CH 50V 0.1U  | 2   |         |
| C61     | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |            | C356    | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |         |
| C62     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |            | C357    | ECUM1H040DCN | C.CAPACITOR CH 50V 4P    | 1   |         |
| C63     | ECBA1CU470   | E.CAPACITOR 16V 47U      | 1   |            | C358    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
| C64     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |            | C359    | ECUM1H080DCN | C.CAPACITOR CH 50V 80P   | 1   |         |
| C65     | ECBA1CU470   | E.CAPACITOR 16V 47U      | 1   |            | C360    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C66-68  | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |            | C361    | ECBAJN101S   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C69     | ECUM1H820JCN | C.CAPACITOR CH 50V 82P   | 1   |            | C362,63 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C70     | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |            | C366    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C71     | ECBA1CU470   | E.CAPACITOR 16V 47U      | 1   |            | C367    | ECBAJU330    | E.CAPACITOR 6.3V 33U     | 1   |         |
| C72     | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |            | C368    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C73     | ECUM1H470JCN | C.CAPACITOR CH 50V 47P   | 1   |            | C369,70 | ECUM1H104KBN | C.CAPACITOR CH 50V 0.1U  | 2   |         |
| C75     | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |            | C371    | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |         |
| C76,77  | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |            | C372    | ECUM1H040DCN | C.CAPACITOR CH 50V 4P    | 1   |         |
| C78     | ECBA1HN010S  | E.CAPACITOR 50V 1U       | 1   |            | C373    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
| C101    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |            | C374    | ECUM1H080DCN | C.CAPACITOR CH 50V 80P   | 1   |         |
| C102    | ECUM1H270JCN | C.CAPACITOR CH 50V 27P   | 1   |            | C375    | ECUM1H680JCN | C.CAPACITOR CH 50V 68P   | 1   |         |
| C103    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |            | C376    | ECBAJN101S   | E.CAPACITOR 6.3V 100U    | 1   |         |
| C104    | ECUM1H220JCN | C.CAPACITOR CH 50V 22P   | 1   |            | C377,78 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C111    | ECBA1CU470   | E.CAPACITOR 16V 47U      | 1   |            | C401    | ECBA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
| C112    | ECUM1H471JCN | C.CAPACITOR CH 50V 470P  | 1   |            | C402,03 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 2   |         |
| C113    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |            | C404    | ECUM1H102JCN | C.CAPACITOR CH 50V 1000P | 1   |         |
| C114    | ECUM1H102JCN | C.CAPACITOR CH 50V 1000P | 1   |            | C405    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C115,16 | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 2   |            | C406    | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 1   |         |
| C120    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |            | C408    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C121    | ECUM1H104KBN | C.CAPACITOR CH 50V 0.1U  | 1   |            | C409    | ECUM1H121JCN | C.CAPACITOR CH 50V 120P  | 1   |         |
| C122-28 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 7   |            | C410    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C151-54 | ECUM1H222KBN | C.CAPACITOR CH 50V 2200P | 4   |            | C415    | ECUM1H101JCN | C.CAPACITOR CH 50V 100P  | 1   |         |
| C155    | ECBA1AU330   | E.CAPACITOR 10V 33U      | 1   |            | C416,17 | ECUM1H331JCN | C.CAPACITOR CH 50V 330P  | 2   |         |
| C156-65 | ECUM1H222KBN | C.CAPACITOR CH 50V 2200P | 10  |            | C421-25 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 5   |         |
| C166    | ECBA1AU330   | E.CAPACITOR 10V 33U      | 1   |            | C451    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C167    | ECUM1H222KBN | C.CAPACITOR CH 50V 2200P | 1   |            | C452    | ECBAJU330    | E.CAPACITOR 6.3V 33U     | 1   |         |
| C181    | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |            | C453    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C182    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |            | C454,55 | ECUM1H104KBN | C.CAPACITOR CH 50V 0.1U  | 2   |         |
| C183    | ECBA1CU100   | E.CAPACITOR 16V 10U      | 1   |            | C456    | ECUM1H150JCN | C.CAPACITOR CH 50V 15P   | 1   |         |
| C184    | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |            | C457    | ECUM1H040DCN | C.CAPACITOR CH 50V 4P    | 1   |         |
| C185    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |            | C458    | ECUM1H560JCN | C.CAPACITOR CH 50V 56P   | 1   |         |
| C186    | ECBA1CU100   | E.CAPACITOR 16V 10U      | 1   |            | C459    | ECBA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
| C187    | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |            | C460    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C188    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |            | C461    | ECBA1CU470   | E.CAPACITOR 16V 47U      | 1   |         |
| C189    | ECBA1CU100   | E.CAPACITOR 16V 10U      | 1   |            | C462    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C190    | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |            | C463    | ECBA1HU47    | E.CAPACITOR 50V 4.7U     | 1   |         |
| C191    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |            | C464-66 | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 3   |         |
| C192    | ECBA1CU100   | E.CAPACITOR 16V 10U      | 1   |            | C467    | ECBA1HN47S   | E.CAPACITOR 50V 0.47U    | 1   |         |
| C193    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |            | C468    | ECUM1C104KBN | C.CAPACITOR CH 16V 0.1U  | 1   |         |
| C194    | ECBA1CU100   | E.CAPACITOR 16V 10U      | 1   |            | C469    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |
| C201    | ECBAJU101    | E.CAPACITOR 6.3V 100U    | 1   |            | C472    | ECUM1H103KBN | C.CAPACITOR CH 50V 0.01U | 1   |         |

| Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks | Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|----------|--------------|---------------------------|-----|---------|
| C501     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C657     | BCEA1CU221   | E. CAPACITOR 16V 220U     | 1   |         |
| C502     | BCEA1CU470   | B. CAPACITOR 16V 47U      | 1   |         | C658     | ECUM1H050DCN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C503     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C659     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C504     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C660     | BCEA1CU470   | B. CAPACITOR 16V 47U      | 1   |         |
| C505     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | C661     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C509     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         | C662     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C510     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C663     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         |
| C511     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         | C664     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |         |
| C513     | ECUM1H030KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C665     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C517     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | C666, 67 | BCEA1CU470   | E. CAPACITOR 16V 47U      | 2   |         |
| C520     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C668     | BCEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C521     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         | C679     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C522     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C680-83  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 4   |         |
| C523     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         | C701     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         |
| C524     | ECUM1H030KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C702     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C525     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C703     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C526     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C704     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C527     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         | C706     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C528     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         | C709     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C529     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C710     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C531     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C711     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |
| C532     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C712     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         |
| C533, 34 | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 2   |         | C713, 14 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C535     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P   | 1   |         | C715     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C536     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C716     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C537     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 1   |         | C717     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C538-40  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         | C718-20  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C541     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C721     | ECUM1H122JF  | P. CAPACITOR 50V 1200P    | 1   |         |
| C542     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C722-24  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C543     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C725     | BCEA1HNR2S   | E. CAPACITOR 50V 2.2U     | 1   |         |
| C544     | ECUM1H080DCN | C. CAPACITOR CH 50V 80P   | 1   |         | C726     | BCEA1HNR47S  | E. CAPACITOR 50V 0.47U    | 1   |         |
| C545     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | C727     | BCEA1HNR10S  | E. CAPACITOR 50V 1U       | 1   |         |
| C547     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P   | 1   |         | C728     | BCEA1HNR2S   | E. CAPACITOR 50V 2.2U     | 1   |         |
| C548, 49 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 2   |         | C729     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C550, 51 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         | C730     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C552     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P   | 1   |         | C731     | ECUM1H070DCN | C. CAPACITOR CH 50V 7P    | 1   |         |
| C553     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         | C732, 33 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C554     | ECUM1H181JCN | C. CAPACITOR CH 50V 180P  | 1   |         | C734     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 1   |         |
| C555-57  | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U  | 3   |         | C735     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P  | 1   |         |
| C558     | BCEA1HNR10S  | E. CAPACITOR 50V 1U       | 1   |         | C736     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         |
| C559-61  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         | C737, 38 | BCEA1CU100   | E. CAPACITOR 16V 10U      | 2   |         |
| C562     | BCEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         | C739     | ECUM1H050DCN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C563     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C740     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C564     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C743, 44 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C565     | BCEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         | C745, 46 | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 2   |         |
| C566     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         | C749     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C567     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | C750     | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |         |
| C568     | BCEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         | C751     | BCEA1JU220   | E. CAPACITOR 6.3V 22U     | 1   |         |
| C601-04  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 4   |         | C752     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C605     | BCEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         | C761     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C606, 07 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 2   |         | C762     | ECUM1H050DCN | C. CAPACITOR CH 50V 50P   | 1   |         |
| C608     | BCEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         | C763, 64 | ECUM1H560JCN | C. CAPACITOR CH 50V 56P   | 2   |         |
| C609-14  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 6   |         | C781     | ECUM1H390JCN | C. CAPACITOR CH 50V 39P   | 1   |         |
| C615     | BCEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         | C791     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         |
| C616     | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1   |         | C800     | VCK0036104KR | C. CAPACITOR 50V 0.1U     | 1   |         |
| C617     | BCEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         | C801     | VCK0036104KR | C. CAPACITOR 50V 0.1U     | 1   |         |
| C618-21  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 4   |         | C802     | BCCF1H820JC  | C. CAPACITOR 50V 82P      | 1   |         |
| C622     | BCEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         | C803     | BCCF1H560JC  | C. CAPACITOR 50V 56P      | 1   |         |
| C623, 24 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 2   |         | C804     | BCCF1H560JC  | C. CAPACITOR 50V 56P      | 1   |         |
| C626-31  | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 6   |         | C805     | VCK0036104KR | C. CAPACITOR 50V 0.1U     | 1   |         |
| C633     | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 1   |         | C806     | VCK0036104KR | C. CAPACITOR 50V 0.1U     | 1   |         |
| C634     | BCEA1AKG330  | E. CAPACITOR 10V 33U      | 1   |         | C807     | BCCF1H820JC  | C. CAPACITOR 50V 82P      | 1   |         |
| C635-38  | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 4   |         |          |              |                           |     |         |
| C639     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |          |              |                           |     |         |
| C640     | BCEA1JU101   | E. CAPACITOR 6.3V 100U    | 1   |         | D1       | 1S251        | DIODE                     | 1   |         |
| C641, 42 | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 2   |         | D61      | MA151WK      | DIODE                     | 1   |         |
| C643     | BCEA1JU330   | E. CAPACITOR 6.3V 33U     | 1   |         | D111     | MA151K       | DIODE                     | 1   |         |
| C645     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | D112     | MA151WA      | DIODE                     | 1   |         |
| C646     | BCEA1JU330   | E. CAPACITOR 6.3V 33U     | 1   |         | D114     | MA704        | DIODE                     | 1   |         |
| C647     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         | D201     | MA151WK      | DIODE                     | 1   |         |
| C648     | BCEA1H2R2    | E. CAPACITOR 50V 2.2U     | 1   |         | D202     | MA151WA      | DIODE                     | 1   |         |
| C649     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         | D203     | MA151WK      | DIODE                     | 1   |         |
| C650     | BCEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         | D204     | MA151WA      | DIODE                     | 1   |         |
| C651-53  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         | D205, 06 | MA151K       | DIODE                     | 2   |         |
| C655     | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |          |              |                           |     |         |

| Ref.No.  | Part No.     | Part Name & Description | Pcs   | Remarks | Ref.No.  | Part No.     | Part Name & Description | Pcs   | Remarks |
|----------|--------------|-------------------------|-------|---------|----------|--------------|-------------------------|-------|---------|
| D259     | MA704        | DIODE                   | 1     |         | IC401    | MC74HC221AM  | IC                      | 1     |         |
| D275     | MA704        | DIODE                   | 1     |         | IC402    | SN74LS221NS  | IC                      | 1     |         |
| D501     | MA151K       | DIODE                   | 1     |         | IC403    | UPD65013BC16 | IC                      | 1     |         |
| D502     | MA151MK      | DIODE                   | 1     |         | IC405_06 | MC74HC74AF   | IC                      | 2     |         |
| D601_02  | MA704        | DIODE                   | 2     |         | IC407    | MC74HC00AF   | IC                      | 1     |         |
| D603     | 1S250        | DIODE                   | 1     |         | IC408    | MC74HC175F   | IC                      | 1     |         |
| D701     | MA151K       | DIODE                   | 1     |         | IC409    | MC74HC04AF   | IC                      | 1     |         |
| D702     | MA704        | DIODE                   | 1     |         | IC501    | TL082CPS     | IC                      | 1     |         |
| D703     | MA151K       | DIODE                   | 1     |         | IC503_04 | MC74HC4053P  | IC                      | 2     |         |
| D704_05  | MA153        | DIODE                   | 2     |         | IC505    | AN91A12S     | IC                      | 1     |         |
| D706_07  | MA335-R      | DIODE                   | 2     |         | IC506    | AN78N09      | IC                      | 1     |         |
| D708     | MA151MA      | DIODE                   | 1     |         | IC507    | AN78N05      | IC                      | 1     |         |
| D709     | MA151MK      | DIODE                   | 1     |         | IC510    | UPD4053BG    | IC                      | 1     |         |
| D710_11  | MA151MA      | DIODE                   | 2     |         | IC601_02 | HA19211BNT   | IC                      | 2     |         |
| D712     | MA151K       | DIODE                   | 1     |         | IC603_04 | UPD42101G-3  | IC                      | 2     |         |
|          |              |                         |       |         | IC605    | MC74HC574AF  | IC                      | 1     |         |
|          |              |                         |       |         | IC606    | MB40778PF    | IC                      | 1     |         |
|          |              |                         |       |         | IC607    | NJM3415M     | IC                      | 1     |         |
| FL1      | VLF0712      | FILTER                  | 1     |         | IC609    | AN78L05      | IC                      | 1     |         |
| FLA51    | VLF0576      | FILTER                  | 1     |         | IC610    | NJM2233BMA   | IC                      | 1     |         |
| FL201    | VLF0691      | FILTER                  | 1     |         | IC703    | SN74LS221NS  | IC                      | 1     |         |
| FL202-04 | VLF0576      | FILTER                  | 3     |         | IC704    | MC74HC157AF  | IC                      | 1     |         |
| FL401    | VLF0576      | FILTER                  | 1     |         | IC705    | MC74HC74AF   | IC                      | 1     |         |
| FLA51_52 | VLF0576      | FILTER                  | 2     |         | IC706    | TL082CPS     | IC                      | 1     |         |
| FL501_02 | VLF0753      | FILTER                  | 2     |         | IC707    | MC74HC4053P  | IC                      | 1     |         |
| FL601-04 | VLF0576      | FILTER                  | 4     |         | IC708    | TL084CNS     | IC                      | 1     |         |
| FL605    | VLF0754      | FILTER                  | 1     |         | IC709    | MC74HC00AF   | IC                      | 1     |         |
|          |              |                         |       |         | IC710    | SN74LS221NS  | IC                      | 1     |         |
|          |              |                         |       |         | IC711    | MC74HC04AF   | IC                      | 1     |         |
|          |              |                         |       |         | IC712    | MC74HC14AF   | IC                      | 1     |         |
| IC1      | VCN0133      | IC                      | 1     |         | IC713    | UPD65013PC25 | IC                      | 1     |         |
| IC2      | UPD4053BG    | IC                      | 1     |         | IC714    | MC74HC163P   | IC                      | 1     |         |
| IC3      | TL082CPS     | IC                      | 1     |         | IC781    | MC74HC374AF  | IC                      | 1     |         |
| IC4      | NJM3415M     | IC                      | 1     |         | IC783    | MC74HC157AF  | IC                      | 1     |         |
| IC5      | HA19211BNT   | IC                      | 1     |         | IC791    | MM74HC221AM  | IC                      | 1     |         |
| IC6      | UPD4053BG    | IC                      | 1     |         | IC792    | MC74HC32AF   | IC                      | 1     |         |
| IC7      | MC74HC163P   | IC                      | 1     |         |          |              |                         |       |         |
| IC8_09   | MC14053BP    | IC                      | 2 (R) |         |          |              |                         |       |         |
| IC10     | AN91A12S     | IC                      | 1     |         |          |              |                         |       |         |
| IC11_12  | SN74LS221NS  | IC                      | 2     |         | L1_12    | VLQEL05S101K | COIL                    | 100UH | 2       |
| IC14     | SN74LS221NS  | IC                      | 1     |         | L3       | VLQEL05S821J | COIL                    | 820UH | 1       |
| IC15     | SN74LS123NS  | IC                      | 1     |         | L4       | VLQEL05S1R5J | COIL                    | 1.5UH | 1       |
| IC17     | MC74HC74AF   | IC                      | 1     |         | L61      | VLQEL05S330J | COIL                    | 33UH  | 1       |
| IC18     | MC74HC00AF   | IC                      | 1     |         | L62_63   | VLQEL05S101K | COIL                    | 100UH | 2       |
| IC19-24  | MM74HC161S   | IC                      | 6     |         | L64      | VLQEL05S821J | COIL                    | 820UH | 2       |
| IC25     | MC74HC32AF   | IC                      | 1     |         | L101_02  | VLQEL05S3R3J | COIL                    | 3.3UH | 2       |
| IC26     | TL082CPS     | IC                      | 1     |         | L151     | VLP0017      | COIL                    |       | 1       |
| IC27     | NJM311M      | IC                      | 1     |         | L321     | VLQEL05S330J | COIL                    | 33UH  | 1       |
| IC51     | AN78N09      | IC                      | 1     |         | L322     | VLQEL05S390J | COIL                    | 39UH  | 1       |
| IC52     | AN78N05      | IC                      | 1     |         | L323_24  | VLQEL05S101K | COIL                    | 100UH | 2       |
| IC53     | AN78N09      | IC                      | 1     |         | L325     | VLP0017      | COIL                    |       | 1       |
| IC54     | AN78N05      | IC                      | 1     |         | L351     | VLQEL05S560J | COIL                    | 56UH  | 1       |
| IC201    | MC74HC574AF  | IC                      | 1     |         | L352     | VLP0017      | COIL                    |       | 1       |
| IC202    | UPD42505C-50 | IC                      | 1     |         | L366     | VLQEL05S560J | COIL                    | 56UH  | 1       |
| IC203    | MC74HC04AF   | IC                      | 1     |         | L367     | VLP0017      | COIL                    |       | 1       |
| IC204    | MC74HC00AF   | IC                      | 1     |         | L451     | VLQEL05S560J | COIL                    | 56UH  | 1       |
| IC205    | UPD65022PD46 | IC                      | 1     |         | L452     | VLP0017      | COIL                    |       | 1       |
| IC206-08 | MC74HC157AF  | IC                      | 3     |         | L501_02  | VLQEL05S101K | COIL                    | 100UH | 2       |
| IC209    | UPD42505C-50 | IC                      | 1     |         | L505     | VLQEL05S101K | COIL                    | 100UH | 1       |
| IC210    | UPD65042PD24 | IC                      | 1     |         | L506     | VLQEL05S470J | COIL                    | 47UH  | 1       |
| IC211    | UPD42505C-50 | IC                      | 1     |         | L507     | VLQEL05S101K | COIL                    | 100UH | 1       |
| IC212_13 | MC74HC173P   | IC                      | 2     |         | L508     | VLQEL05S470J | COIL                    | 47UH  | 1       |
| IC215    | MB40778PF    | IC                      | 1     |         | L509_10  | VLQEL05S101K | COIL                    | 100UH | 2       |
| IC216_17 | MC74HC574AF  | IC                      | 2     |         | L513     | VLQEL05S471J | COIL                    | 470UH | 1       |
| IC219    | MC74HC74AF   | IC                      | 1     |         | L601-03  | VLP0017      | COIL                    |       | 3       |
| IC220    | MB40778PF    | IC                      | 1     |         | L604     | VLQEL05S221K | COIL                    |       | 1       |
| IC221    | MC74HC366F   | IC                      | 1     |         | L606_07  | VLQEL05S101K | COIL                    | 100UH | 2       |
| IC222    | MC74HC04AF   | IC                      | 1     |         | L608     | VLQEL05S820J | COIL                    | 82UH  | 1       |
| IC225    | MB40778PF    | IC                      | 1     |         | L701     | VLQEL05S101K | COIL                    | 100UH | 1       |
| IC227-29 | TL082CPS     | IC                      | 3     |         | L703_04  | VLQEL05S101K | COIL                    | 100UH | 2       |
| IC230    | MB40778PF    | IC                      | 1     |         | L705     | VLQEL05S3R3J | COIL                    | 3.3UH | 1       |
| IC233_34 | UPD4053BG    | IC                      | 2     |         | L706     | VLQEL05S1R5J | COIL                    | 1.5UH | 1       |
| IC235    | UPD4052BG    | IC                      | 1     |         | L707     | VLQEL05S560J | COIL                    | 56UH  | 1       |
| IC236_37 | UPD4053BG    | IC                      | 2     |         |          |              |                         |       |         |
| IC238    | MC74HC74AF   | IC                      | 1     |         |          |              |                         |       |         |

| Ref.No.  | Part No.    | Part Name & Description  | Pcs     | Remarks |
|----------|-------------|--------------------------|---------|---------|
| P1, P2   | WP1233T     | CONNECTOR(MALE) 6P       | 2       |         |
| Q1       | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q2       | 2SA1022-B   | TRANSISTOR CHIP          | 1 (B.C) |         |
| Q3       | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q4       | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q5       | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q6       | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q7-Q9    | 2SC2295-B   | TRANSISTOR CHIP          | 3 (B.C) |         |
| Q10      | 2SK374-R    | TRANSISTOR               | 1 (Q.R) |         |
| Q11      | UN221L      | TRANSISTOR               | 1       |         |
| Q61      | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q101     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q111     | UN221L      | TRANSISTOR-RESISTOR      | 1       |         |
| Q283-85  | 2SD601-R    | TRANSISTOR CHIP          | 3 (Q.R) |         |
| Q321     | 2SA1022-B   | TRANSISTOR CHIP          | 1 (B.C) |         |
| Q322     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q323-25  | 2SC2295-B   | TRANSISTOR CHIP          | 3 (B.C) |         |
| Q326     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q327     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q328     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q329, 30 | 2SC2295-B   | TRANSISTOR CHIP          | 2 (B.C) |         |
| Q351-53  | 2SA1022-B   | TRANSISTOR CHIP          | 3 (B.C) |         |
| Q354, 55 | 2SB709-R    | TRANSISTOR CHIP          | 2 (Q.R) |         |
| Q366-68  | 2SA1022-B   | TRANSISTOR CHIP          | 3 (B.C) |         |
| Q369, 70 | 2SB709-R    | TRANSISTOR CHIP          | 2 (Q.R) |         |
| Q401, 02 | UN221L      | TRANSISTOR-RESISTOR      | 2       |         |
| Q450     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q451     | 2SC2404-C   | TRANSISTOR CHIP          | 1 (C.D) |         |
| Q452     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q501, 02 | 2SD601-R    | TRANSISTOR CHIP          | 2 (Q.R) |         |
| Q503, 04 | 2SC2295-B   | TRANSISTOR CHIP          | 2 (B.C) |         |
| Q506     | 2SC2295-B   | TRANSISTOR CHIP          | 1 (B.C) |         |
| Q507     | 2SK374-R    | TRANSISTOR               | 1 (Q.R) |         |
| Q509, 10 | 2SD601-R    | TRANSISTOR CHIP          | 2 (Q.R) |         |
| Q511, 12 | 2SC2295-B   | TRANSISTOR CHIP          | 2 (B.C) |         |
| Q514     | 2SC2295-B   | TRANSISTOR CHIP          | 1 (B.C) |         |
| Q515     | 2SK374-R    | TRANSISTOR               | 1 (Q.R) |         |
| Q517     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q518, 19 | 2SD601-R    | TRANSISTOR CHIP          | 2 (Q.R) |         |
| Q520     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q521     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q522     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q523     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q525     | 2SA1022-B   | TRANSISTOR CHIP          | 1 (B.C) |         |
| Q526, 27 | 2SB709-R    | TRANSISTOR CHIP          | 2 (Q.R) |         |
| Q528     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q601     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q602     | 2SA1022-B   | TRANSISTOR CHIP          | 1 (B.C) |         |
| Q603     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q604-06  | 2SC2295-B   | TRANSISTOR CHIP          | 3 (B.C) |         |
| Q609     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q701     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q702     | 2SC2404-C   | TRANSISTOR CHIP          | 1 (C.D) |         |
| Q703     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q704     | UN221L      | TRANSISTOR-RESISTOR      | 1       |         |
| Q706     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q707     | 2SC3757     | TRANSISTOR               | 1 (Q.R) |         |
| Q708, 09 | 2SA1226     | TRANSISTOR               | 2       |         |
| Q710     | 2SC3757     | TRANSISTOR               | 1 (Q.R) |         |
| Q711     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q.R) |         |
| Q791     | 2SC3757     | TRANSISTOR               | 1 (Q.R) |         |
|          |             | RESISTORS                |         |         |
| R1       | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R2       | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1       |         |
| R3       | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R4       | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100  | 1       |         |
| R5       | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R6       | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R7, R8   | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2       |         |
| R9       | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1       |         |
| R10, 11  | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2       |         |
| R12      | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100  | 1       |         |
| R13      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R14      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R15      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R16      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R17, 18  | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2       |         |
| R19, 20  | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2       |         |
| R21      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R22      | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1       |         |
| R23      | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1       |         |
| R24, 25  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2       |         |
| R26      | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1       |         |
| R27      | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1       |         |
| R28      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1       |         |
| R29      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R30      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R31      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R32      | VR80034E272 | M.RESISTOR CH 1/10W 2.7K | 1       |         |
| R33      | VR80034E202 | M.RESISTOR CH 1/10W 2K   | 1       |         |
| R34      | VR80034E152 | M.RESISTOR CH 1/10W 1.5K | 1       |         |
| R35, 36  | VR80034E102 | M.RESISTOR CH 1/10W 1K   | 2       |         |
| R37      | VR80034E202 | M.RESISTOR CH 1/10W 2K   | 1       |         |
| R38      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R39      | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1       |         |
| R40      | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1       |         |
| R41      | ERJ6GEYJ688 | M.RESISTOR CH 1/10W 6.8  | 1       |         |
| R42      | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1       |         |
| R51      | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R61      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R62      | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1       |         |
| R63      | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1       |         |
| R64      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R65      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R66      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R67      | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1       |         |
| R68      | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1       |         |
| R69-71   | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3       |         |
| R72      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R73      | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1       |         |
| R74      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R75      | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1       |         |
| R76      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R101     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R102     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R103     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R104     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1       |         |
| R105     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1       |         |
| R106     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1       |         |
| R107     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R108     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1       |         |
| R111     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1       |         |
| R112     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1       |         |
| R113     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1       |         |
| R114     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1       |         |
| R115     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R116     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1       |         |
| R117     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1       |         |
| R121     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1       |         |
| R122     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R123     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1       |         |
| R126     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R127     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1       |         |
| R128     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1       |         |
| R129     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1       |         |
| R130     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1       |         |
| R131     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1       |         |
| R133     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1       |         |
| R145-49  | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 5       |         |
| R151     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1       |         |
| R152     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R160-67  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 6       |         |
| R202     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1       |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R203    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R204    | ERJ6GEYG563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R205    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R206    | ECUMH820JCN | C.CAPACITOR CH 50V 82P   | 1   |         |
| R207-14 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 8   |         |
| R210    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R221-30 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 10  |         |
| R231.32 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R235    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R241    | ERJ6GEYG133 | M.RESISTOR CH 1/10W 13K  | 1   |         |
| R242    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R243    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R245    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R246-48 | ECUMH860JCN | C.CAPACITOR CH 50V 68P   | 3   |         |
| R251-82 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 32  |         |
| R283    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R284    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R285    | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R286    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R287    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R288    | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R289    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R290    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R291    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R292    | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R301    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R311    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R321    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R322    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R323    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R324    | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300  | 1   |         |
| R325    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R326    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R327    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R328    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R329    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R330    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R331    | ERJ6GEYG221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R332    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R333    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R334    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R335,36 | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 2   |         |
| R337    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R338    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R339    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R340    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R341    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R342    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R343    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R344,45 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R346    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R347    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R348    | VRB0034E302 | M.RESISTOR CH 1/10W 3K   | 1   |         |
| R349    | VRB0034E123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R350    | VRB0034E302 | M.RESISTOR CH 1/10W 3K   | 1   |         |
| R351    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R352    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R353,54 | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R355    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R356    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R357    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R358    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R359,60 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R361    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R362    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R363,64 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R365    | VRB0034E123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R366    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R367    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R368,69 | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 2   |         |
| R370    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R371    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R372    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R373    | ERJ6GEYG122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R374,75 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R376    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R377    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R378    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R379-81 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R382    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R383    | VRB0034E302 | M.RESISTOR CH 1/10W 3K   | 1   |         |
| R384    | VRB0034E123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R385-87 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 3   |         |
| R391    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R392    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R393    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R394    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R395    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R396    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R401    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R402    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R403    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R405    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R411    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R414    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R416    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R417    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R421    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R424    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R431    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R432    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R451    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R452    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R453    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R454,55 | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R456    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R457    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R458    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R459,60 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R461    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R462    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R463,64 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R465    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R466    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R467    | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1   |         |
| R468    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R469,70 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R471    | ERJ6GEYG563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R472    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R473    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R474    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R475    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R479    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R481    | VRB0034E302 | M.RESISTOR CH 1/10W 3K   | 1   |         |
| R482    | VRB0034E123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R501    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R502    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R503    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R504    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| R505    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R506    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R508    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R509    | ERJ6GEYJ020 | M.RESISTOR CH 1/10W      | 1   |         |
| R510    | ERJ6GEYG301 | M.RESISTOR CH 1/10W 300  | 1   |         |
| R511    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R512    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R513    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R514    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R515    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R516    | ERJ6GEYG681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R517    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R518    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R519    | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1   |         |
| R520    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R521    | ERJ6GEYG331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R522    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R523    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R524    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R525    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R526    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |



| Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R527     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         | R636     | ERJ6GEYJ661 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R528     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R638     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R529     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R640     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R530     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R641     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R531     | ERJ6GEYJ820 | M.RESISTOR CH 1/10W 82   | 1   |         | R643     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R532     | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 1   |         | R644     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R533, 34 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R645     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R535     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R646     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R536     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R647     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R537     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R648     | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R538     | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | R656     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R539     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R658     | VREDO34E302 | M.RESISTOR CH 1/10W 3K   | 1   |         |
| R540     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R659     | VREDO34E123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R541     | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1   |         | R701     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R542     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R702     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R543     | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         | R703     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R544     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R704     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R545     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R705     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R546     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R706, 07 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| R547     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R708, 09 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R548     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R710     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R549     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R711     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R550     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R712     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R552-54  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 3   |         | R713     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R555     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R714     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R556     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R715     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R557     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         | R716     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R558     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R717, 18 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R559, 60 | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 2   |         | R719     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R562, 63 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R720     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R564     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R721, 22 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R565     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R723     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R566     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R724     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R567     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R725     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R569     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R726     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R571     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R727     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R572     | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180  | 1   |         | R728     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R573     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R729     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R574     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R731     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R575     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R732     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R576     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 1   |         | R733     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R577     | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         | R734     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R578     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R735, 36 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R579     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R737     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R580     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R738, 39 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R581     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R743, 44 | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R582-84  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         | R746, 47 | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 2   |         |
| R585, 86 | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 2   |         | R748     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R587, 88 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | R751     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R589     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R752     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R591     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R753, 54 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R592     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R755, 56 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R593-95  | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 3   |         | R761     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R596     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R762     | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R597     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R763, 64 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R598     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1   |         | R765     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R601, 02 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         | R766     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R603-10  | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 8   |         | R781     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R613     | VREDO34E361 | M.RESISTOR CH 1/10W 360  | 1   |         | R782     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R614, 15 | VREDO34E102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R784     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R616     | VREDO34E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R786     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1   |         |
| R617     | VREDO34E202 | M.RESISTOR CH 1/10W 2K   | 1   |         | R788     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R618     | VREDO34E152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R790     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R620     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R791     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R622     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R792     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R623, 24 | ERJ6GEYJ301 | M.RESISTOR CH 1/10W 300  | 2   |         | R793, 94 | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 2   |         |
| R625     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R795     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R626, 27 | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 2   |         | R796     | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R628     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R797     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R630     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R798     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R631     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R799     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R632     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R800-09  | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 10  |         |
| R633     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |          |             |                          |     |         |
| R634     | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |          |             |                          |     |         |
| R635     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |          |             |                          |     |         |



| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks            | Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks |
|---------|--------------|---------------------------|-----|--------------------|----------|--------------|----------------------------|-----|---------|
|         | VER62061E    | P.C. BOARD W/COMPONENT    |     | FOR AD-65E, AD-62E | C131     | ECFA1R220S   | E. CAPACITOR 25V 22U       | 1   |         |
|         |              | M5 SERVO                  |     |                    | C132     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U     | 1   |         |
|         |              |                           |     |                    | C133-36  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 4   |         |
|         |              |                           |     |                    | C137     | ECFA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
|         |              |                           |     |                    | C138     | ECFA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |                    | C139     | ECQM1H822JF  | P. CAPACITOR 50V 8200P     | 1   |         |
|         |              |                           |     |                    | C140     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P  | 1   |         |
|         |              |                           |     |                    | C141     | ECFA1HND10S  | E. CAPACITOR 50V 1U        | 1   |         |
|         |              |                           |     |                    | C142     | ECFA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
|         |              |                           |     |                    | C143     | ECFA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |                    | C144     | ECFA1CU220   | E. CAPACITOR 16V 22U       | 1   |         |
|         |              |                           |     |                    | C145     | ECFA1AU470   | E. CAPACITOR 10V 47U       | 1   |         |
|         |              |                           |     |                    | C146     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |                    | C147     | ECFA1HUR47   | E. CAPACITOR 50V 0.47U     | 1   |         |
|         |              |                           |     |                    | C148     | ECFA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |                    | C149, 50 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |                    | C151     | ECFA1HND10S  | E. CAPACITOR 50V 1U        | 1   |         |
|         |              |                           |     |                    | C152, 53 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |                    | C154     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
|         |              |                           |     |                    | C155     | ECFA1HND10S  | E. CAPACITOR 50V 10U       | 1   |         |
|         |              |                           |     |                    | C156     | ECFA1HUR47   | E. CAPACITOR 50V 0.47U     | 1   |         |
|         |              |                           |     |                    | C157, 58 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |                    | C159     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |                    | C160     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |                    | C161     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |                    | C162, 63 | ECQM1H103JF  | P. CAPACITOR 50V 0.01U     | 2   |         |
|         |              |                           |     |                    | C164     | ECFA1HUR47   | E. CAPACITOR 50V 4.7U      | 1   |         |
|         |              |                           |     |                    | C165-67  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |              |                           |     |                    | C168     | ECFA1EU100   | E. CAPACITOR 25V 10U       | 1   |         |
|         |              |                           |     |                    | C169     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U     | 1   |         |
|         |              |                           |     |                    | C170     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P   | 1   |         |
|         |              |                           |     |                    | C171, 72 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |                    | C173     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P   | 1   |         |
|         |              |                           |     |                    | C174     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |                    | C175     | ECFA1HUR2R2  | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |              |                           |     |                    | C176     | ECFA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |                    | C177     | ECQM1H222JF  | P. CAPACITOR 50V 2200P     | 1   |         |
|         |              |                           |     |                    | C179     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P   | 1   |         |
|         |              |                           |     |                    | C301     | ECFA1AU330   | E. CAPACITOR 10V 33U       | 1   |         |
|         |              |                           |     |                    | C302     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |                    | C303     | ECQM1H562JF  | P. CAPACITOR 50V 5600P     | 1   |         |
|         |              |                           |     |                    | C304     | ECQM1H392JF  | P. CAPACITOR 50V 3900P     | 1   |         |
|         |              |                           |     |                    | C305     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |                    | C306     | ECQM1H123JF  | P. CAPACITOR 50V 0.012U    | 1   |         |
|         |              |                           |     |                    | C307     | ECFA1CN470S  | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |                    | C308     | ECFA1UJ221   | E. CAPACITOR 6.3V 220U     | 1   |         |
|         |              |                           |     |                    | C309     | ECFA1HUR2R2  | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |              |                           |     |                    | C310     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |                    | C311     | ECUM1H153KBN | C. CAPACITOR CH 50V 0.015U | 1   |         |
|         |              |                           |     |                    | C312     | ECFA1HND10S  | E. CAPACITOR 50V 1U        | 1   |         |
|         |              |                           |     |                    | C313, 14 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |                    | C315     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |                    | C316     | ECUM1E273KBN | C. CAPACITOR CH 25V 0.027U | 1   |         |
|         |              |                           |     |                    | C317     | ECFA1HUR2R2  | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |              |                           |     |                    | C318-20  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |              |                           |     |                    | C321     | ECFA1CU100   | E. CAPACITOR 16V 10U       | 1   |         |
|         |              |                           |     |                    | C322     | ECFA1UJ470   | E. CAPACITOR 6.3V 470U     | 1   |         |
|         |              |                           |     |                    | C323     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |                    | C324     | ECFA1UJ471   | E. CAPACITOR 6.3V 470U     | 1   |         |
|         |              |                           |     |                    | C327     | ECFA1HUR2R2  | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |              |                           |     |                    | C330-36  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 7   |         |
|         |              |                           |     |                    | C338     | ECFA1CU100   | E. CAPACITOR 16V 10U       | 1   |         |
|         |              |                           |     |                    | C342     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |                    | C401-03  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |              |                           |     |                    | C406-10  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 5   |         |
|         |              |                           |     |                    | C454     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |                    | C492     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |                    | C495, 96 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |                    | C501     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |                    | C502     | ECFA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |                    | C503     | ECFA1ESS471  | E. CAPACITOR 25V 470U      | 1   |         |
|         |              |                           |     |                    | C504     | ECUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1   |         |
|         |              |                           |     |                    | C505     | ECUM1H561JCN | C. CAPACITOR CH 50V 560P   | 1   |         |
|         |              |                           |     |                    | C506     | ECUM1H20JCN  | C. CAPACITOR CH 50V 82P    | 1   |         |
|         |              |                           |     |                    | C507     | ECUM1H561JCN | C. CAPACITOR CH 50V 560P   | 1   |         |
| C1      | ECQM1H273JF  | P. CAPACITOR 50V 0.027U   | 1   |                    |          |              |                            |     |         |
| C2      | ECUM1H152JN  | C. CAPACITOR CH 50V 1500P | 1   |                    |          |              |                            |     |         |
| C3, 04  | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 2   |                    |          |              |                            |     |         |
| C5      | ECFA1CU100   | E. CAPACITOR 16V 10U      | 1   |                    |          |              |                            |     |         |
| C6      | ECFA1UJ101   | E. CAPACITOR 6.3V 100U    | 1   |                    |          |              |                            |     |         |
| C7      | ECFA1AU470   | E. CAPACITOR 10V 47U      | 1   |                    |          |              |                            |     |         |
| C8      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |                    |          |              |                            |     |         |
| C9      | ECQM1H154JF  | P. CAPACITOR 50V 0.15U    | 1   |                    |          |              |                            |     |         |
| C10     | ECFA1HUR2R2  | E. CAPACITOR 50V 2.2U     | 1   |                    |          |              |                            |     |         |
| C11     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |                    |          |              |                            |     |         |
| C13     | ECQM1H822JF  | P. CAPACITOR 50V 8200P    | 1   |                    |          |              |                            |     |         |
| C14     | ECQM1H562JF  | P. CAPACITOR 50V 5600P    | 1   |                    |          |              |                            |     |         |
| C15, 16 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |                    |          |              |                            |     |         |
| C17     | ECQM1H394JF  | P. CAPACITOR 50V 0.39U    | 1   |                    |          |              |                            |     |         |
| C18     | ECFA1HUR47   | E. CAPACITOR 50V 4.7U     | 1   |                    |          |              |                            |     |         |
| C19     | ECFA1AU470   | E. CAPACITOR 10V 47U      | 1   |                    |          |              |                            |     |         |
| C20, 21 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |                    |          |              |                            |     |         |
| C22     | ECFA1HUR2R2  | E. CAPACITOR 50V 2.2U     | 1   |                    |          |              |                            |     |         |
| C23, 24 | ECUM1H1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |                    |          |              |                            |     |         |
| C25     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |                    |          |              |                            |     |         |
| C26     | ECFA1AU470   | E. CAPACITOR 10V 47U      | 1   |                    |          |              |                            |     |         |
| C27     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |                    |          |              |                            |     |         |
| C28     | ECFA1AU470   | E. CAPACITOR 10V 47U      | 1   |                    |          |              |                            |     |         |
| C29     | ECFA1AU330   | E. CAPACITOR 10V 33U      | 1   |                    |          |              |                            |     |         |
| C30     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |                    |          |              |                            |     |         |
| C31     | ECFA1AU330   | E. CAPACITOR 10V 33U      | 1   |                    |          |              |                            |     |         |
| C32     | ECFA1AU470   | E. CAPACITOR 10V 47U      | 1   |                    |          |              |                            |     |         |
| C33     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |                    |          |              |                            |     |         |
| C34     | ECFA1AU470   | E. CAPACITOR 10V 47U      | 1   |                    |          |              |                            |     |         |
| C39     | ECUM1H31JCN  | C. CAPACITOR CH 50V 330P  | 1   |                    |          |              |                            |     |         |
| C40-42  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 3   |                    |          |              |                            |     |         |
| C43     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |                    |          |              |                            |     |         |
| C46     | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |                    |          |              |                            |     |         |
| C47, 48 | ECUM1H1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |                    |          |              |                            |     |         |
| C101    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |                    |          |              |                            |     |         |
| C102    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |                    |          |              |                            |     |         |
| C103    | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |                    |          |              |                            |     |         |
| C104    | ECFA1HUR2R2  | E. CAPACITOR 50V 2.2U     | 1   |                    |          |              |                            |     |         |
| C105    | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1   |                    |          |              |                            |     |         |
| C106    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |                    |          |              |                            |     |         |
| C107    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |                    |          |              |                            |     |         |
| C108    | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |                    |          |              |                            |     |         |
| C109    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |                    |          |              |                            |     |         |
| C110    | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |                    |          |              |                            |     |         |
| C111    | ECFA1HND10   | E. CAPACITOR 50V 1U       | 1   |                    |          |              |                            |     |         |
| C112    | ECQM1H154JF  | P. CAPACITOR 50V 0.15U    | 1   |                    |          |              |                            |     |         |
| C113    | ECFA1HND10   | E. CAPACITOR 50V 1U       | 1   |                    |          |              |                            |     |         |
| C114    | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |                    |          |              |                            |     |         |
| C115    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |                    |          |              |                            |     |         |
| C116    | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |                    |          |              |                            |     |         |
| C117    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |                    |          |              |                            |     |         |
| C118    | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |                    |          |              |                            |     |         |
| C119    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |                    |          |              |                            |     |         |
| C120    | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |                    |          |              |                            |     |         |
| C121    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |                    |          |              |                            |     |         |
| C122    | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |                    |          |              |                            |     |         |
| C123    | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |                    |          |              |                            |     |         |
| C124    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |                    |          |              |                            |     |         |
| C125    | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1   |                    |          |              |                            |     |         |
| C126    | ECQM1H562JF  | P. CAPACITOR 50V 5600P    | 1   |                    |          |              |                            |     |         |
| C127    | ECQM1H393JF  | P. CAPACITOR 50V 0.039U   | 1   |                    |          |              |                            |     |         |
| C128    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |                    |          |              |                            |     |         |
| C129    | ECFA1HUR22   | E. CAPACITOR 10V 22U      | 1   |                    |          |              |                            |     |         |
| C130    | ECFA1HND10   | E. CAPACITOR 50V 1U       | 1   |                    |          |              |                            |     |         |



| Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks | Ref.No.   | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|----------------------------|-----|---------|-----------|--------------|---------------------------|-----|---------|
| C508     | BCEAIH0010   | E. CAPACITOR 50V 1U        | 1   |         | D334, 35  | MA151K       | DIODE                     | 2   |         |
| C509-13  | BCEAIH0010   | E. CAPACITOR 25V 100U      | 5   |         | D337      | ERJ6GEYJ824  | M. RESISTOR CH 1/10W 820K | 1   |         |
| C514     | BOQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D338      | MA151K       | DIODE                     | 1   |         |
| C515     | BCEAIH04R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D340      | MA151WA      | DIODE                     | 1   |         |
| C516-18  | BCEAIH04R7S  | E. CAPACITOR 50V 4.7U      | 3   |         | D341      | MA151K       | DIODE                     | 1   |         |
| C519     | BCEAIH0010   | E. CAPACITOR 50V 1U        | 1   |         | D345, 46  | MA151WA      | DIODE                     | 2   |         |
| C520-22  | BCUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D349      | MA151MK      | DIODE                     | 1   |         |
| C523     | BOQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D351      | MA151K       | DIODE                     | 1   |         |
| C524     | BCEAIH04R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D501      | MA151K       | DIODE                     | 1   |         |
| C525, 26 | BCEAIH04R7S  | E. CAPACITOR 50V 4.7U      | 2   |         | D502      | MA151MK      | DIODE                     | 1   |         |
| C527     | BOQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D503      | MA153        | DIODE                     | 1   |         |
| C528     | BCEAIH0010   | E. CAPACITOR 50V 1U        | 1   |         | D504      | MA151MK      | DIODE                     | 1   |         |
| C529-31  | BCUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D505, 06  | MA151K       | DIODE                     | 2   |         |
| C532     | BCEAIH04R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D507      | MA151MK      | DIODE                     | 1   |         |
| C533, 34 | BCEAIH04R7S  | E. CAPACITOR 50V 4.7U      | 2   |         | D508, 09  | MA151K       | DIODE                     | 2   |         |
| C535     | BOQM1H224JF  | P. CAPACITOR 50V 0.22U     | 1   |         | D510      | MA151MK      | DIODE                     | 1   |         |
| C536     | BCEAIH0010   | E. CAPACITOR 50V 1U        | 1   |         | D511      | MA151K       | DIODE                     | 1   |         |
| C537-39  | BCUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D514-17   | MA701A       | DIODE                     | 4   |         |
| C540     | BCEAIH04R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D672      | MA151K       | DIODE                     | 1   |         |
| C541-43  | BCEAIH04R7S  | E. CAPACITOR 50V 4.7U      | 3   |         |           |              |                           |     |         |
| C544     | BOQM1H224JF  | P. CAPACITOR 50V 0.22U     | 1   |         |           |              |                           |     |         |
| C545     | BCEAIH0010   | E. CAPACITOR 50V 1U        | 1   |         |           |              |                           |     |         |
| C546-48  | BCUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | IC1       | LM2904M      | IC                        | 1   |         |
| C549     | BCEAIH0470   | E. CAPACITOR 10V 47U       | 1   |         | IC2       | LM2903M      | IC                        | 1   |         |
| C550     | BCUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1   |         | IC3       | LM2904M      | IC                        | 1   |         |
| C551     | BCEAIH04R7S  | E. CAPACITOR 50V 4.7U      | 1   |         | IC4       | NJMA558M     | IC                        | 1   |         |
| C552     | BOQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | IC5       | MC14538BF    | IC                        | 1   |         |
| C553     | BCEAIH04R7S  | E. CAPACITOR 50V 4.7U      | 1   |         | IC6       | UPD65031F405 | IC                        | 1   |         |
| C558-63  | BOQM1H104JF  | P. CAPACITOR 50V 0.1U      | 6   |         | IC7       | MN53015V2W   | IC                        | 1   |         |
| C600     | BCUM1H680JCN | C. CAPACITOR CH 50V 68P    | 1   |         | IC8       | MC14049UBF   | IC                        | 1   |         |
| C601     | BCUM1H050JCN | C. CAPACITOR CH 50V 50P    | 1   |         | IC9       | MC14013BF    | IC                        | 1   |         |
| C602     | BCUM1H680JCN | C. CAPACITOR CH 50V 68P    | 1   |         | IC10      | MM74HC221AM  | IC                        | 1   |         |
| C603     | BCUM1H050JCN | C. CAPACITOR CH 50V 50P    | 1   |         | IC11      | AN78L05      | IC                        | 1   |         |
| C900-11  | BCUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 12  |         | IC12      | MC14021BF    | IC                        | 1   |         |
|          |              |                            |     |         | IC13      | MC14094BF    | IC                        | 1   |         |
|          |              |                            |     |         | IC14      | MC14053BF    | IC                        | 1   | (R)     |
|          |              |                            |     |         | IC15      | MC14049UBF   | IC                        | 1   |         |
| D1       | MA151K       | DIODE                      | 1   |         | IC16      | MC14050BF    | IC                        | 1   |         |
| D4       | MA151K       | DIODE                      | 1   |         | IC17      | SN74LS01NS   | IC                        | 1   |         |
| D101     | MA151K       | DIODE                      | 1   |         | IC18      | MN51020VZZ   | IC                        | 1   |         |
| D102     | MA153        | DIODE                      | 1   |         | IC101     | LM2904M      | IC                        | 1   |         |
| D103     | MA151MK      | DIODE                      | 1   |         | IC102     | LM2903M      | IC                        | 1   |         |
| D104     | MA151K       | DIODE                      | 1   |         | IC103     | LM2904M      | IC                        | 1   |         |
| D105     | MA151MK      | DIODE                      | 1   |         | IC104     | MC14538BF    | IC                        | 1   |         |
| D106, 07 | MA151WA      | DIODE                      | 2   |         | IC105     | AN79L09      | IC                        | 1   |         |
| D108     | MA151K       | DIODE                      | 1   |         | IC106     | AN78N09      | IC                        | 1   |         |
| D109     | MA151MK      | DIODE                      | 1   |         | IC107     | DM74LS293S   | IC                        | 1   |         |
| D110, 11 | MA153        | DIODE                      | 2   |         | IC108     | MC74HC00AF   | IC                        | 1   |         |
| D112     | MA151MK      | DIODE                      | 1   |         | IC109     | MN6064R      | IC                        | 1   |         |
| D113, 14 | MA151K       | DIODE                      | 2   |         | IC110     | MN6168VIA    | IC                        | 1   |         |
| D115     | MA153        | DIODE                      | 1   |         | IC111     | MC74HC04F    | IC                        | 1   |         |
| D116     | MA151K       | DIODE                      | 1   |         | IC112     | MC14049UBF   | IC                        | 1   |         |
| D119     | MA151MK      | DIODE                      | 1   |         | IC113, 14 | LM2904M      | IC                        | 2   |         |
| D120-22  | MA151WA      | DIODE                      | 3   |         | IC115     | LM2903M      | IC                        | 1   |         |
| D123     | MA151K       | DIODE                      | 1   |         | IC116, 17 | LM2904M      | IC                        | 2   |         |
| D125     | MA151K       | DIODE                      | 1   |         | IC118-20  | MC14066BF    | IC                        | 3   |         |
| D126, 27 | MA153        | DIODE                      | 2   |         | IC121     | MC14052BF    | IC                        | 1   |         |
| D128     | MA151WA      | DIODE                      | 1   |         | IC122, 23 | MC14053BF    | IC                        | 2   | (R)     |
| D129     | MA151K       | DIODE                      | 1   |         | IC124     | MN53030VYA   | IC                        | 1   |         |
| D302     | MA151K       | DIODE                      | 1   |         | IC125     | MN53007VYC   | IC                        | 1   |         |
| D303     | MA151MK      | DIODE                      | 1   |         | IC126     | UPC4558G2    | IC                        | 1   |         |
| D304     | MA151WA      | DIODE                      | 1   |         | IC128     | NJMA558M     | IC                        | 1   |         |
| D305     | MA151K       | DIODE                      | 1   |         | IC129     | MC14538BF    | IC                        | 1   |         |
| D307     | MA151WA      | DIODE                      | 1   |         | IC130     | MC14013BF    | IC                        | 1   |         |
| D309     | MA151MK      | DIODE                      | 1   |         | IC131     | LM2904M      | IC                        | 1   |         |
| D310     | MA151K       | DIODE                      | 1   |         | IC132     | UPC4558G2    | IC                        | 1   |         |
| D313     | MA151WA      | DIODE                      | 1   |         | IC133     | MM4030BS     | IC                        | 1   |         |
| D314-17  | MA151MK      | DIODE                      | 4   |         | IC134     | MC14538BF    | IC                        | 1   |         |
| D318     | MA151K       | DIODE                      | 1   |         | IC135     | MC14053BF    | IC                        | 1   | (R)     |
| D319, 20 | MA151MK      | DIODE                      | 2   |         | IC136     | MC74HC02AF   | IC                        | 1   |         |
| D321, 22 | MA151K       | DIODE                      | 2   |         | IC137     | MC14538BF    | IC                        | 1   |         |
| D323, 24 | MA151MK      | DIODE                      | 2   |         | IC301     | AN78L05      | IC                        | 1   |         |
| D325     | MA151K       | DIODE                      | 1   |         | IC302     | LM2904M      | IC                        | 1   |         |
| D330     | MA151K       | DIODE                      | 1   |         | IC303     | LM2902M      | IC                        | 1   |         |
| D333     | MA151MK      | DIODE                      | 1   |         | IC304     | MC14053BF    | IC                        | 1   | (R)     |



| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|
| R145     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R146     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R147, 48 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R149     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R150     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R151     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R152     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R153     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R154-56  | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 3   |         |
| R157, 58 | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 2   |         |
| R159     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R160     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R161     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R162     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R163     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R164     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R165     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R166     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R167     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R168     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R169     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R170, 71 | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R172     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R181, 82 | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R183     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R184     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R185     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R186     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R187, 88 | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 2   |         |
| R189     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R190     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R191, 92 | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R193, 94 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R195     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R196     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R197     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R198     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R199     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R200     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R201     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R202     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R203     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R204     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R205     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R206     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R207-09  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R210     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R211     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R212     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R213-15  | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 3   |         |
| R216     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R218     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R219     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R220     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R222-27  | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 6   |         |
| R228     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R229     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R230     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R231     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R232     | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R233     | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R234     | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R235     | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R236     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R237     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R238     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R239     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R240     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R241     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R242     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R243     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R244, 45 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R246     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R247     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R248     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |

| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|
| R249     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R250     | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         |
| R251     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R252     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R253     | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         |
| R254-58  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         |
| R259     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R260     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R261     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R262     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R263     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R264     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R265     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R266-69  | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 4   |         |
| R270     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R271     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R273     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R274     | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 180  | 1   |         |
| R275     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R276, 77 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R278     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R279-81  | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 3   |         |
| R282     | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         |
| R283     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R284     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R285     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R286, 87 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R288     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R289     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R301     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R302, 03 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R304     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R305     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R306     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R307     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R308     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R309     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R310     | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R311     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R312     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R313     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R314     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R315, 16 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R317     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R318     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R319     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R320     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R321     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R322     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R325, 26 | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R327     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R328     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R329     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R330     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R331     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R332, 33 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R334     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R335     | ERJ6GEYJ394 | M.RESISTOR CH 1/10W 390K | 1   |         |
| R336     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R337, 38 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R339, 40 | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R341     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R342     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R343     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R344     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R345     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R346     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R347     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R348     | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R349, 50 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R351     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R352-55  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         |
| R356     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R357     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R358     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R359,60 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R362,63 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R365    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R366    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R367,68 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R369    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R370,71 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R373,74 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R376    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R378,79 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R380    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R381    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R382    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R383    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R386    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R388    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R389    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R390    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R391    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R392,93 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R394,95 | VRB0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R396,97 | VRB0034E472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R398    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R424    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R427    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R428    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R432,33 | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 2   |         |
| R435    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R437    | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R440    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R442    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R443    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R445    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R446,47 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| R448,49 | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 2   |         |
| R460    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R461    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R462    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R463,64 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 33K  | 2   |         |
| R465    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R466    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R467    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R470    | ERJ6GEYJ394 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R496    | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R501    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R502    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R503    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R504-07 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 82K  | 4   |         |
| R508    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R509-12 | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 39K  | 4   |         |
| R513    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R514    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R515    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R516    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R517    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R518    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R519    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R520    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R521,22 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R523    | ERX125JR47  | M.RESISTOR 1/2W 0.47     | 1   |         |
| R524    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R525    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R526    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R527    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R528    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R529    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R530    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R531    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R532    | ERX125JR68  | M.RESISTOR 1/2W 0.68     | 1   |         |
| R533    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R534    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R535    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R536    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R537    | ERX125JR47  | M.RESISTOR 1/2W 0.47     | 1   |         |
| R538-40 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 3   |         |

| Ref.No.  | Part No.    | Part Name & Description  | Pcs  | Remarks |
|----------|-------------|--------------------------|------|---------|
| R541     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1    |         |
| R542     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1    |         |
| R543     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1    |         |
| R544     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1    |         |
| R545     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1    |         |
| R546     | ERX125JR47  | M.RESISTOR 1/2W 0.47     | 1    |         |
| R547-49  | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 22K  | 3    |         |
| R550     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1    |         |
| R551     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1    |         |
| R553     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1    |         |
| R554     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1    |         |
| R555-57  | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 3    |         |
| R600     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 27K  | 1    |         |
| R601     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1    |         |
| R603     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 27K  | 1    |         |
| R604     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1    |         |
|          |             |                          |      |         |
|          |             |                          |      |         |
| SW1,W2   | VSR0032     | VOLTAGE SELECT SWITCH    | 2    |         |
| SW3      | VSS0126     | SWITCH                   | 1    |         |
|          |             |                          |      |         |
|          |             |                          |      |         |
| TP3-P7   | VJRO646     | TEST POINT               | 5    |         |
| TP13     | VJRO646     | TEST POINT               | 1    |         |
| TP15-17  | VJRO646     | TEST POINT               | 3    |         |
| TP19,20  | VJRO646     | TEST POINT               | 2    |         |
| TP102-05 | VJRO646     | TEST POINT               | 4    |         |
| TP106-18 | VJRO646     | TEST POINT               | 11   |         |
| TP201,02 | VJRO646     | TEST POINT               | 2    |         |
| TP302-04 | VJRO646     | TEST POINT               | 3    |         |
| TP306    | VJRO646     | TEST POINT               | 1    |         |
| TP309-12 | VJRO646     | TEST POINT               | 4    |         |
| TPG1-G3  | VJRO646     | TEST POINT               | 3    |         |
|          |             |                          |      |         |
|          |             |                          |      |         |
| UC101    | ECV12W30X53 | V. CAPACITOR             | 30P  | 1       |
|          |             |                          |      |         |
|          |             |                          |      |         |
|          |             |                          |      |         |
| VR1      | VRV0109B503 | V.RESISTOR               | 50K  | 1       |
| VR3      | VRV0109B203 | V.RESISTOR               | 20K  | 1       |
| VR101    | VRV0109B203 | V.RESISTOR               | 20K  | 1       |
| VR102    | VRV0109B103 | V.RESISTOR               | 10K  | 1       |
| VR103    | VRV0109B203 | V.RESISTOR               | 20K  | 1       |
| VR104    | VRV0109B502 | V.RESISTOR               | 5K   | 1       |
| VR105    | VRV0109B104 | V.RESISTOR               | 100K | 1       |
| VR301    | VRV0109B502 | V.RESISTOR               | 5K   | 1       |
| VR302,03 | VRV0109B202 | V.RESISTOR               | 2K   | 2       |
| VR304-07 | VRV0109B503 | V.RESISTOR               | 50K  | 4       |
| VR308    | VRV0109B202 | V.RESISTOR               | 2K   | 1       |
| VR309    | VRV0109B503 | V.RESISTOR               | 50K  | 1       |
|          |             |                          |      |         |
|          |             |                          |      |         |
|          |             |                          |      |         |
| X101     | VSK0217     | CRYSTAL OSCILLATOR       |      | 1       |
| X501     | VSK0136     | CRYSTAL OSCILLATOR       |      | 1       |
| X600     | VSK0126     | CRYSTAL OSCILLATOR       |      | 1       |
| X601     | VSK0086     | CRYSTAL OSCILLATOR       |      | 1       |
|          |             |                          |      |         |
|          |             |                          |      |         |
|          |             |                          |      |         |
|          |             |                          |      |         |
|          |             | MISCELLANEOUS            |      |         |
|          | VHL2143     | CARD FULLER              |      | 1       |
|          | VHL2144     | CARD FULLER              |      | 1       |
|          | VW21547     | BARRIER                  |      | 1       |
|          | VSC2286     | SHIELD CASE              |      | 1       |
|          | VXA3966     | P.C.B. SHIELD PLATE      |      | 1       |
|          | XVW3-K6PR   | SCREW                    |      | 5       |

| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks    | Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks |
|---------|--------------|---------------------------|-----|------------|----------|--------------|----------------------------|-----|---------|
|         | VEP82061P    | P.C. BOARD W/COMPONENT    |     | FOR AU-63H | C132     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U     | 1   |         |
|         |              | W5 SERVO                  |     |            | C133-36  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 4   |         |
|         |              |                           |     |            | C137     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
|         |              |                           |     |            | C139     | ECQM1H822JF  | P. CAPACITOR 50V 8200P     | 1   |         |
|         |              |                           |     |            | C140     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P  | 1   |         |
|         |              |                           |     |            | C141     | ECEA1HN010S  | E. CAPACITOR 50V 1U        | 1   |         |
|         |              |                           |     |            | C143     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |            | C145     | ECEA1AU470   | E. CAPACITOR 10V 47U       | 1   |         |
|         |              |                           |     |            | C146     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |            | C147     | ECEA1HUR47   | E. CAPACITOR 50V 0.47U     | 1   |         |
|         |              |                           |     |            | C148     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |            | C149, 50 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |            | C151     | ECEA1HN010S  | E. CAPACITOR 50V 1U        | 1   |         |
|         |              |                           |     |            | C152, 53 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |            | C154     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
|         |              |                           |     |            | C155     | ECEA1HN100S  | E. CAPACITOR 50V 10U       | 1   |         |
|         |              |                           |     |            | C156     | ECEA1HUR47   | E. CAPACITOR 50V 0.47U     | 1   |         |
|         |              |                           |     |            | C157, 58 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |            | C159     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |            | C160     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |            | C161     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |            | C162, 63 | ECQM1H103JF  | P. CAPACITOR 50V 0.01U     | 2   |         |
|         |              |                           |     |            | C164     | ECEA1HUR47   | E. CAPACITOR 50V 0.47U     | 1   |         |
|         |              |                           |     |            | C165-67  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |              |                           |     |            | C168     | ECEA1EU100   | E. CAPACITOR 25V 10U       | 1   |         |
|         |              |                           |     |            | C169     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U     | 1   |         |
|         |              |                           |     |            | C170     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P   | 1   |         |
|         |              |                           |     |            | C171, 72 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |            | C173     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P   | 1   |         |
|         |              |                           |     |            | C174     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |            | C175     | ECEA1HUR2    | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |              |                           |     |            | C176     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |            | C177     | ECQM1H222JF  | P. CAPACITOR 50V 2200P     | 1   |         |
|         |              |                           |     |            | C179     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P   | 1   |         |
|         |              |                           |     |            | C301     | ECEA1AU330   | E. CAPACITOR 10V 33U       | 1   |         |
|         |              |                           |     |            | C302     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |            | C303     | ECQM1H562JF  | P. CAPACITOR 50V 5600P     | 1   |         |
|         |              |                           |     |            | C304     | ECQM1H392JF  | P. CAPACITOR 50V 3900P     | 1   |         |
|         |              |                           |     |            | C305     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |            | C306     | ECQM1H123JF  | P. CAPACITOR 50V 0.012U    | 1   |         |
|         |              |                           |     |            | C307     | ECEA1CN470S  | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |            | C308     | ECEA1JU221   | E. CAPACITOR 6.3V 220U     | 1   |         |
|         |              |                           |     |            | C309     | ECEA1HUR2    | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |              |                           |     |            | C310     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |            | C311     | ECUM1H153KBN | C. CAPACITOR CH 50V 0.015U | 1   |         |
|         |              |                           |     |            | C312     | ECEA1HN010S  | E. CAPACITOR 50V 1U        | 1   |         |
|         |              |                           |     |            | C313, 14 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |            | C315     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |            | C316     | ECUM1E273KBN | C. CAPACITOR CH 25V 0.027U | 1   |         |
|         |              |                           |     |            | C317     | ECEA1HN2R2S  | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |              |                           |     |            | C318-20  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |              |                           |     |            | C321     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         |
|         |              |                           |     |            | C322     | ECEA1JU470   | E. CAPACITOR 6.3V 47U      | 1   |         |
|         |              |                           |     |            | C323     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |            | C324     | ECEA1JU471   | E. CAPACITOR 6.3V 470U     | 1   |         |
|         |              |                           |     |            | C327     | ECEA1HUR2    | E. CAPACITOR 50V 2.2U      | 1   |         |
|         |              |                           |     |            | C330-36  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 7   |         |
|         |              |                           |     |            | C338     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         |
|         |              |                           |     |            | C342     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |            | C401-03  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         |
|         |              |                           |     |            | C406-10  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 5   |         |
|         |              |                           |     |            | C454     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |            | C492     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |            | C495, 96 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         |
|         |              |                           |     |            | C501     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
|         |              |                           |     |            | C502     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
|         |              |                           |     |            | C503     | ECEA1ESS471  | E. CAPACITOR 25V 470U      | 1   |         |
|         |              |                           |     |            | C504     | ECUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1   |         |
|         |              |                           |     |            | C505     | ECUM1H561JCN | C. CAPACITOR CH 50V 560P   | 1   |         |
|         |              |                           |     |            | C506     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P    | 1   |         |
|         |              |                           |     |            | C507     | ECUM1H561JCN | C. CAPACITOR CH 50V 560P   | 1   |         |
|         |              |                           |     |            | C508     | ECEA1HUR10   | E. CAPACITOR 50V 1U        | 1   |         |
|         |              |                           |     |            | C509-13  | ECEA1ESS101  | E. CAPACITOR 25V 100U      | 5   |         |
|         |              |                           |     |            | C514     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
|         |              |                           |     |            | C515     | ECEA1E47R7   | E. CAPACITOR 25V 4.7U      | 1   |         |
| C1      | ECQM1H273JF  | P. CAPACITOR 50V 0.027U   | 1   |            |          |              |                            |     |         |
| C2      | ECUM1H152JN  | C. CAPACITOR CH 50V 1500P | 1   |            |          |              |                            |     |         |
| C3, C4  | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 2   |            |          |              |                            |     |         |
| C5      | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |            |          |              |                            |     |         |
| C6      | ECEA1JU101   | E. CAPACITOR 6.3V 100U    | 1   |            |          |              |                            |     |         |
| C7      | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |            |          |              |                            |     |         |
| C8      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |            |          |              |                            |     |         |
| C9      | ECQM1H154JF  | P. CAPACITOR 50V 0.15U    | 1   |            |          |              |                            |     |         |
| C10     | ECEA1HN2R2S  | E. CAPACITOR 50V 2.2U     | 1   |            |          |              |                            |     |         |
| C11     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |            |          |              |                            |     |         |
| C13     | ECQM1H822JF  | P. CAPACITOR 50V 8200P    | 1   |            |          |              |                            |     |         |
| C14     | ECQM1H682JF  | P. CAPACITOR 50V 6800P    | 1   |            |          |              |                            |     |         |
| C15, 16 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |            |          |              |                            |     |         |
| C17     | ECQM1H394JF  | P. CAPACITOR 50V 0.39U    | 1   |            |          |              |                            |     |         |
| C18     | ECEA1HUR47   | E. CAPACITOR 50V 0.47U    | 1   |            |          |              |                            |     |         |
| C19     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |            |          |              |                            |     |         |
| C20, 21 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |            |          |              |                            |     |         |
| C22     | ECEA1HUR2    | E. CAPACITOR 50V 2.2U     | 1   |            |          |              |                            |     |         |
| C23, 24 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |            |          |              |                            |     |         |
| C25     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |            |          |              |                            |     |         |
| C26     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |            |          |              |                            |     |         |
| C27     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |            |          |              |                            |     |         |
| C28     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |            |          |              |                            |     |         |
| C29     | ECEA1AU330   | E. CAPACITOR 10V 33U      | 1   |            |          |              |                            |     |         |
| C30     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |            |          |              |                            |     |         |
| C31     | ECEA1AU330   | E. CAPACITOR 10V 33U      | 1   |            |          |              |                            |     |         |
| C32     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |            |          |              |                            |     |         |
| C33     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |            |          |              |                            |     |         |
| C34     | ECEA1AU470   | E. CAPACITOR 10V 47U      | 1   |            |          |              |                            |     |         |
| C39     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |            |          |              |                            |     |         |
| C40-42  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 3   |            |          |              |                            |     |         |
| C43     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |            |          |              |                            |     |         |
| C46     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |            |          |              |                            |     |         |
| C47, 48 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |            |          |              |                            |     |         |
| C101    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |            |          |              |                            |     |         |
| C102    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |            |          |              |                            |     |         |
| C103    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |            |          |              |                            |     |         |
| C104    | ECEA1HUR2    | E. CAPACITOR 50V 2.2U     | 1   |            |          |              |                            |     |         |
| C105    | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |            |          |              |                            |     |         |
| C106    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |            |          |              |                            |     |         |
| C107    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |            |          |              |                            |     |         |
| C108    | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |            |          |              |                            |     |         |
| C109    | ECUM1H221JCN | C. CAPACITOR CH 50V 220P  | 1   |            |          |              |                            |     |         |
| C110    | ECQM1H103JF  | P. CAPACITOR 50V 0.03U    | 1   |            |          |              |                            |     |         |
| C111    | ECEA1HUR10   | E. CAPACITOR 50V 1U       | 1   |            |          |              |                            |     |         |
| C112    | ECQM1H154JF  | P. CAPACITOR 50V 0.15U    | 1   |            |          |              |                            |     |         |
| C113    | ECEA1HUR10   | E. CAPACITOR 50V 1U       | 1   |            |          |              |                            |     |         |
| C114    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |            |          |              |                            |     |         |
| C115    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |            |          |              |                            |     |         |
| C116    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |            |          |              |                            |     |         |
| C117    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |            |          |              |                            |     |         |
| C118    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |            |          |              |                            |     |         |
| C119    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |            |          |              |                            |     |         |
| C120    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |            |          |              |                            |     |         |
| C121    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |            |          |              |                            |     |         |
| C122    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |            |          |              |                            |     |         |
| C123    | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |            |          |              |                            |     |         |
| C124    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |            |          |              |                            |     |         |
| C125    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |            |          |              |                            |     |         |
| C126    | ECQM1H562JF  | P. CAPACITOR 50V 5600P    | 1   |            |          |              |                            |     |         |
| C127    | ECQM1H393JF  | P. CAPACITOR 50V 0.39U    | 1   |            |          |              |                            |     |         |
| C128    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |            |          |              |                            |     |         |
| C129    | ECEA1HUR2    | E. CAPACITOR 50V 2.2U     | 1   |            |          |              |                            |     |         |
| C130    | ECEA1HUR10   | E. CAPACITOR 50V 1U       | 1   |            |          |              |                            |     |         |
| C131    | ECEA1HUR20S  | E. CAPACITOR 25V 22U      | 1   |            |          |              |                            |     |         |

| Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|----------------------------|-----|---------|----------|--------------|---------------------------|-----|---------|
| C516-18  | BCEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 3   |         | C761     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 1   |         |
| C519     | BCEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         | C762     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
| C520-22  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | C763, 64 | BCEA1AU330   | E. CAPACITOR 10V 33U      | 2   |         |
| C523     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | C765     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C524     | BCEA1EU4R7   | E. CAPACITOR 25V 4.7U      | 1   |         | C900-11  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 12  |         |
| C525, 26 | BCEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 2   |         |          |              |                           |     |         |
| C527     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |          |              |                           |     |         |
| C528     | BCEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         |          |              |                           |     |         |
| C529-31  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D1       | MA151K       | DIODE                     | 1   |         |
| C532     | BCEA1EU4R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D302     | MA151K       | DIODE                     | 1   |         |
| C533, 34 | BCEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 2   |         | D303     | MA151MK      | DIODE                     | 1   |         |
| C535     | ECQM1H224JF  | P. CAPACITOR 50V 0.22U     | 1   |         | D304     | MA151WA      | DIODE                     | 1   |         |
| C536     | BCEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         | D305     | MA151K       | DIODE                     | 1   |         |
| C537-39  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D307     | MA151WA      | DIODE                     | 1   |         |
| C540     | BCEA1EU4R7   | E. CAPACITOR 25V 4.7U      | 1   |         | D309     | MA151MK      | DIODE                     | 1   |         |
| C541-43  | BCEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 3   |         | D310     | MA151K       | DIODE                     | 1   |         |
| C544     | ECQM1H224JF  | P. CAPACITOR 50V 0.22U     | 1   |         | D313     | MA151WA      | DIODE                     | 1   |         |
| C545     | BCEA1HU010   | E. CAPACITOR 50V 1U        | 1   |         | D314-17  | MA151MK      | DIODE                     | 4   |         |
| C546-48  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D318     | MA151K       | DIODE                     | 1   |         |
| C549     | BCEA1AU470   | E. CAPACITOR 10V 47U       | 1   |         | D319, 20 | MA151MK      | DIODE                     | 2   |         |
| C550     | ECUM1H473KBN | C. CAPACITOR CH 25V 0.047U | 1   |         | D321, 22 | MA151K       | DIODE                     | 2   |         |
| C551     | BCEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 1   |         | D323, 24 | MA151MK      | DIODE                     | 2   |         |
| C552     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D325     | MA151K       | DIODE                     | 1   |         |
| C553     | BCEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 1   |         | D330     | MA151K       | DIODE                     | 1   |         |
| C558-63  | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 6   |         | D333     | MA151MK      | DIODE                     | 1   |         |
| C600     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P    | 1   |         | D334, 35 | MA151K       | DIODE                     | 2   |         |
| C601     | ECUM1H5000CN | C. CAPACITOR CH 50V 50P    | 1   |         | D337, 38 | MA151K       | DIODE                     | 2   |         |
| C602     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P    | 1   |         | D340     | MA151WA      | DIODE                     | 1   |         |
| C603     | ECUM1H5000CN | C. CAPACITOR CH 50V 50P    | 1   |         | D341     | MA151K       | DIODE                     | 1   |         |
| C700     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P   | 1   |         | D345, 46 | MA151WA      | DIODE                     | 2   |         |
| C701     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         | D349     | MA151MK      | DIODE                     | 1   |         |
| C702     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D351     | MA151K       | DIODE                     | 1   |         |
| C703     | BCEA1HN4R7S  | E. CAPACITOR 50V 4.7U      | 1   |         | D501     | MA151K       | DIODE                     | 1   |         |
| C704     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D502     | MA151MK      | DIODE                     | 1   |         |
| C705     | ECQM1H582JF  | P. CAPACITOR 50V 6800P     | 1   |         | D503     | MA153        | DIODE                     | 1   |         |
| C706-08  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 3   |         | D504     | MA151MK      | DIODE                     | 1   |         |
| C709     | ECQM1H151J2  | P. CAPACITOR 50V 150P      | 1   |         | D505, 06 | MA151K       | DIODE                     | 2   |         |
| C710, 11 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         | D507     | MA151MK      | DIODE                     | 1   |         |
| C712, 13 | ECQM1H151J2  | P. CAPACITOR 50V 150P      | 2   |         | D508, 09 | MA151K       | DIODE                     | 2   |         |
| C714-19  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 6   |         | D510     | MA151MK      | DIODE                     | 1   |         |
| C720     | BCEA1CU220   | E. CAPACITOR 16V 22U       | 1   |         | D511     | MA151K       | DIODE                     | 1   |         |
| C721     | ECQM1H122JF  | P. CAPACITOR 50V 1200P     | 1   |         | D514-17  | MA701A       | DIODE                     | 4   |         |
| C722     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D572     | MA151K       | DIODE                     | 1   |         |
| C723     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         | D700     | MA151WA      | DIODE                     | 1   |         |
| C724     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P    | 1   |         | D701, 02 | 1SS101       | DIODE                     | 2   |         |
| C725     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D703     | MA151K       | DIODE                     | 1   |         |
| C726     | BCEA1CU330   | E. CAPACITOR 16V 33U       | 1   |         | D704-06  | MA153        | DIODE                     | 3   |         |
| C727     | ECQM1H124JF  | P. CAPACITOR 50V 0.12U     | 1   |         | D707-09  | 1A25RP       | LED                       | 3   |         |
| C728, 29 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         | D710     | MA153        | DIODE                     | 1   |         |
| C730-32  | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P  | 3   |         | D711, 12 | MA1039       | DIODE                     | 2   |         |
| C733     | ECQM1H124JF  | P. CAPACITOR 50V 0.12U     | 1   |         | D713     | MA153        | DIODE                     | 1   |         |
| C734, 35 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 2   |         | D714, 15 | MA1039       | DIODE                     | 2   |         |
| C736     | ECQM1H182JF  | P. CAPACITOR 50V 1800P     | 1   |         | D716-21  | MA153        | DIODE                     | 6   |         |
| C737     | BCEA1HUR33   | E. CAPACITOR 50V 0.33U     | 1   |         |          |              |                           |     |         |
| C738     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         |          |              |                           |     |         |
| C739     | BCEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         |          |              |                           |     |         |
| C740     | BCEA1HUR33   | E. CAPACITOR 50V 0.33U     | 1   |         | IC1      | LM2904M      | IC                        | 1   |         |
| C741     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | IC2      | LM2903M      | IC                        | 1   |         |
| C742     | BCEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         | IC3      | LM2904M      | IC                        | 1   |         |
| C743     | BCEA1HUR33   | E. CAPACITOR 50V 0.33U     | 1   |         | IC4      | LM4558M      | IC                        | 1   |         |
| C744     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | IC5      | MC145388F    | IC                        | 1   |         |
| C745     | BCEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         | IC6      | UPD65031F905 | IC                        | 1   |         |
| C746, 47 | BCEA1AU330   | E. CAPACITOR 10V 33U       | 2   |         | IC7      | MMS3015V2W   | IC                        | 1   |         |
| C748     | BCEA1HUR33   | E. CAPACITOR 50V 0.33U     | 1   |         | IC8      | MC14049UBF   | IC                        | 1   |         |
| C749     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | IC9      | MC14013BF    | IC                        | 1   |         |
| C750     | BCEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         | IC10     | MM74HC221AM  | IC                        | 1   |         |
| C751     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         | IC11     | AN78L05      | IC                        | 1   |         |
| C752     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P    | 1   |         | IC12     | MC14021BF    | IC                        | 1   |         |
| C753, 54 | BCEA1AU330   | E. CAPACITOR 10V 33U       | 2   |         | IC13     | MC14094BF    | IC                        | 1   |         |
| C755     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         | IC14     | MC14053BF    | IC                        | 1   | (R)     |
| C756     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | IC15     | MC14049UBF   | IC                        | 1   |         |
| C757     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P   | 1   |         | IC16     | MC14050BF    | IC                        | 1   |         |
| C758     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | IC18     | MM51020V22   | IC                        | 1   |         |
| C759     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         | IC101    | LM2904M      | IC                        | 1   |         |
| C760     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U  | 1   |         | IC102    | LM2903M      | IC                        | 1   |         |



| Ref.No.   | Part No.   | Part Name & Description | Pcs | Remarks | Ref.No.   | Part No.     | Part Name & Description | Pcs | Remarks |
|-----------|------------|-------------------------|-----|---------|-----------|--------------|-------------------------|-----|---------|
| IC103     | LM2904M    | IC                      | 1   |         | IC134     | MC14538BP    | IC                      | 1   |         |
| IC104     | MC14538BP  | IC                      | 1   |         | IC135     | MC14053BP    | IC                      | 1   | (R)     |
| IC105     | AN79L09    | IC                      | 1   |         | IC136     | MC74HC02AF   | IC                      | 1   |         |
| IC106     | AN78N09    | IC                      | 1   |         | IC137     | MC14538BP    | IC                      | 1   |         |
| IC107     | DN74LS293S | IC                      | 1   |         | IC301     | AN78L05      | IC                      | 1   |         |
| IC108     | MC74HC00AF | IC                      | 1   |         | IC302     | LM2904M      | IC                      | 1   |         |
| IC109     | MM6064R    | IC                      | 1   |         | IC303     | LM2902M      | IC                      | 1   |         |
| IC110     | MM6168VIA  | IC                      | 1   |         | IC304     | MC14053BF    | IC                      | 1   | (R)     |
| IC111     | MC74HC004F | IC                      | 1   |         | IC305     | MC14066BF    | IC                      | 1   |         |
| IC112     | MC14049UBF | IC                      | 1   |         | IC306     | LM2904M      | IC                      | 1   |         |
| IC113, 14 | LM2904M    | IC                      | 2   |         | IC307     | LM2902M      | IC                      | 1   |         |
| D505, 06  | MA151K     | DIODE                   | 2   |         | IC308, 09 | LM2904M      | IC                      | 2   |         |
| D507      | MA151MK    | DIODE                   | 1   |         | IC310-13  | MC14066BF    | IC                      | 4   |         |
| D508, 09  | MA151K     | DIODE                   | 2   |         | IC314     | MC14028BF    | IC                      | 1   |         |
| D510      | MA151MK    | DIODE                   | 1   |         | IC315     | MC14081BF    | IC                      | 1   |         |
| D511      | MA151K     | DIODE                   | 1   |         | IC316     | NJM2901M     | IC                      | 1   |         |
| D514-17   | MA701A     | DIODE                   | 4   |         | IC318     | MC14538BP    | IC                      | 1   |         |
| D572      | MA151K     | DIODE                   | 1   |         | IC319     | MC14049UBF   | IC                      | 1   |         |
| D700      | MA151MA    | DIODE                   | 1   |         | IC501     | BA6149LS     | IC                      | 1   |         |
| D701, 02  | 1SS101     | DIODE                   | 2   |         | IC502     | P4213        | IC                      | 1   |         |
| D703      | MA151K     | DIODE                   | 1   |         | IC503-06  | AN3821K      | IC                      | 4   |         |
| D704-06   | MA153      | DIODE                   | 3   |         | IC600, 01 | MC74HC004F   | IC                      | 2   |         |
| D707-09   | LM25RP     | LED                     | 3   |         | IC700     | AN608P       | IC                      | 1   |         |
| D710      | MA153      | DIODE                   | 1   |         | IC701     | UPC4741G     | IC                      | 1   |         |
| D711, 12  | MA1039     | DIODE                   | 2   |         | IC702     | T1A31CLP     | IC                      | 1   |         |
| D713      | MA153      | DIODE                   | 1   |         | IC703     | MC14053BP    | IC                      | 1   | (R)     |
| D714, 15  | MA1039     | DIODE                   | 1   |         | IC704     | UPC4558G2    | IC                      | 1   |         |
| D716-21   | MA153      | DIODE                   | 6   |         | IC705     | UPC4082G     | IC                      | 1   |         |
|           |            |                         |     |         | IC706     | MC74HC157AF  | IC                      | 1   |         |
|           |            |                         |     |         | IC707     | MM18882      | IC                      | 1   |         |
|           |            |                         |     |         | IC708     | VS10623      | IC                      | 1   |         |
|           |            |                         |     |         | IC709     | 51951BML600B | IC                      | 1   |         |
|           |            |                         |     |         | IC710     | MC14538BP    | IC                      | 1   |         |
|           |            |                         |     |         | IC711     | MM5210RS     | IC                      | 1   |         |
|           |            |                         |     |         | IC712     | UPD65024F137 | IC                      | 1   |         |
|           |            |                         |     |         | IC713     | UPC4082G     | IC                      | 1   |         |
|           |            |                         |     |         | IC714     | UPC4558G2    | IC                      | 1   |         |
|           |            |                         |     |         | IC715     | MC14051BF    | IC                      | 1   |         |
|           |            |                         |     |         | IC716     | UPC4082G     | IC                      | 1   |         |
|           |            |                         |     |         | IC717     | UPC4741G     | IC                      | 1   |         |
|           |            |                         |     |         | IC718     | UPC4558G2    | IC                      | 1   |         |
|           |            |                         |     |         | IC719     | MC14051BF    | IC                      | 1   |         |
|           |            |                         |     |         | IC720     | MC14053BF    | IC                      | 1   | (R)     |
|           |            |                         |     |         | IC721     | AN79L05      | IC                      | 1   |         |
|           |            |                         |     |         | IC722     | AN78L05      | IC                      | 1   |         |
|           |            |                         |     |         | IC723     | AN78L09      | IC                      | 1   |         |
|           |            |                         |     |         | IC724     | AN79L09      | IC                      | 1   |         |
|           |            |                         |     |         | IC725, 26 | LM2902M      | IC                      | 2   |         |
|           |            |                         |     |         | IC727     | LM2903M      | IC                      | 1   |         |
|           |            |                         |     |         | IC800     | LM2904M      | IC                      | 1   |         |
|           |            |                         |     |         | IC8708    | VJS2336A028  | CONNECTOR (FEMALE)      | 1   |         |
|           |            |                         |     |         |           |              |                         |     |         |
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| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| Q110-19 | UN2213      | TRANSISTOR-RESISTOR      | 10  |         | R62     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q120    | 2SD601-R    | TRANSISTOR CHIP          | 1   | (Q,R)   | R64     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| Q123,24 | UN2213      | TRANSISTOR-RESISTOR      | 2   |         | R65     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| Q128    | UN2213      | TRANSISTOR-RESISTOR      | 1   |         | R69,70  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| Q129    | UN2214      | TRANSISTOR-RESISTOR      | 1   |         | R101    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q130    | 2SK374      | TRANSISTOR               | 1   |         | R102    | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         |
| Q131-33 | UN2213      | TRANSISTOR-RESISTOR      | 3   |         | R103    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q134,35 | 2SB709-R    | TRANSISTOR CHIP          | 2   | (Q,R)   | R104    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| Q137-39 | UN2213      | TRANSISTOR-RESISTOR      | 3   |         | R105-07 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         |
| Q140    | MA151A      | DIODE                    | 1   |         | R108    | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         |
| Q301,02 | UN2213      | TRANSISTOR-RESISTOR      | 2   |         | R109    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q303    | UN2113      | TRANSISTOR-RESISTOR      | 1   |         | R110    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| Q304    | UN2213      | TRANSISTOR-RESISTOR      | 1   |         | R111    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q305    | UN2113      | TRANSISTOR-RESISTOR      | 1   |         | R112    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| Q306-08 | UN2213      | TRANSISTOR-RESISTOR      | 3   |         | R113    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| Q312-14 | UN2213      | TRANSISTOR-RESISTOR      | 3   |         | R114    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| Q316    | 2SD601-R    | TRANSISTOR CHIP          | 1   | (Q,R)   | R115    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| Q317    | UN2213      | TRANSISTOR-RESISTOR      | 1   |         | R116    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| Q319    | 2SD601-R    | TRANSISTOR CHIP          | 1   | (Q,R)   | R117    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| Q320    | UN2213      | TRANSISTOR-RESISTOR      | 1   |         | R118    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q336,37 | UN2213      | TRANSISTOR-RESISTOR      | 2   |         | R119    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| Q340    | UN2213      | TRANSISTOR-RESISTOR      | 1   |         | R120-22 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         |
| Q343    | UN2213      | TRANSISTOR-RESISTOR      | 1   |         | R123    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| Q346,47 | UN2213      | TRANSISTOR-RESISTOR      | 2   |         | R124    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| Q501-04 | 2SB709-R    | TRANSISTOR CHIP          | 4   | (Q,R)   | R125    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q505    | UN2113      | TRANSISTOR-RESISTOR      | 1   |         | R126-32 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 7   |         |
| Q506    | UN2213      | TRANSISTOR-RESISTOR      | 1   |         | R133,34 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| Q507    | UN2113      | TRANSISTOR-RESISTOR      | 1   |         | R135,36 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| Q508,09 | UN2213      | TRANSISTOR-RESISTOR      | 2   |         | R137    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q700    | UN2113      | TRANSISTOR-RESISTOR      | 1   |         | R138    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| Q701-11 | UN2213      | TRANSISTOR-RESISTOR      | 11  |         | R139    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
|         |             |                          |     |         | R140    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
|         |             |                          |     |         | R141    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
|         |             |                          |     |         | R142    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
|         |             | RESISTORS                |     |         | R143    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R1      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R144    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R2      | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R145    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R3      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R146    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R4      | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R147,48 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R5,R6   | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R149    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R7      | ERJ6GEYJ155 | M.RESISTOR CH 1/10W 1M   | 1   |         | R150    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R8      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R151    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R9      | ERJ6GEYJ125 | M.RESISTOR CH 1/10W 1.2M | 1   |         | R152    | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R10     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R153    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R11,12  | VR80034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R154-56 | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 3   |         |
| R13     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         | R157,58 | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 2   |         |
| R14     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R159    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R15     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R160    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R16     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         | R161    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R17     | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         | R162    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R18     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R163    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R19,20  | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 2   |         | R164    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R21     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R165    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R22     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R166    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R23     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R167    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R24     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R168    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R25     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R169    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R27     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         | R170,71 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R28-31  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 4   |         | R172    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R34,35  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R181,82 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R36     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R183    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R37-44  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 8   |         | R184    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R45     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R185    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R50     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R186    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R51     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R187,88 | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 2   |         |
| R52     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R189    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R53     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R190    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R54     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R191,92 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R55     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R193,94 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R56     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R195    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R57     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R196    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R58     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | R197    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R59     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R204    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R60     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R205    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R61     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R206    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |



| Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R207-09  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         | R321     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R210     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R322     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R211     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R325, 26 | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R212     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R327     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R213-15  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 3   |         | R328     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R216     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R329     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R222-27  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 6   |         | R330     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R228     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R331     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R229     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R332, 33 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R230     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R334     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R231     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R335     | ERJ6GEYJ394 | M.RESISTOR CH 1/10W 390K | 1   |         |
| R232     | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R336     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R233     | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R337, 38 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R234     | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R339, 40 | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R235     | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R341     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R236     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R342     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R237     | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         | R343     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R238     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R344     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R239     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R345     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R240     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R346     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R241     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R347     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R242     | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         | R348     | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R243     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 10K  | 1   |         | R349, 50 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R244, 45 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R351     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R246     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R352-55  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         |
| R247     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R356     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R248     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R357     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R249     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | R358     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R250     | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         | R359, 60 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R251     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R362, 63 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R252     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R365     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R253     | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         | R366     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R254-58  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         | R366     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R259     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R367, 68 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R260     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R369     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R261     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R370, 71 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R262     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         | R373, 74 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R263     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | R376     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R264     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R376, 79 | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 2   |         |
| R265     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R380     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R266-69  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 4   |         | R381     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R270     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R382     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R271     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R383     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R273     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | R386     | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R274     | ERJ6GEYJ181 | M.RESISTOR CH 1/10W 18K  | 1   |         | R388     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R275     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R389     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R276, 77 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R390     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R278     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R391     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R279-81  | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 3   |         | R392, 93 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R282     | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         | R394, 95 | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R283     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R396, 97 | VRE0034E472 | M.RESISTOR CH 1/10W 4.7K | 2   |         |
| R284     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R398     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R285     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R424     | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R286, 87 | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 2   |         | R427     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R288     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R428     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R289     | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R432, 33 | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 2   |         |
| R301     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R435     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R302, 03 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R437     | ERJ6GEYJ684 | M.RESISTOR CH 1/10W 680K | 1   |         |
| R303     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         | R440     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R304     | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R442     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R305     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R443     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R306     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R445     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R307     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R446, 47 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| R308     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R448     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R309     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 10K  | 1   |         | R449     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R310     | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         | R460     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R311     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | R461     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R312     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R462     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R313     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R463, 64 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 33K  | 2   |         |
| R314     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 15K  | 1   |         | R465     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R315, 16 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R466     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R317     | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R467     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R318     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R469     | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         |
| R319     | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R470     | ERJ6GEYJ394 | M.RESISTOR CH 1/10W 390K | 1   |         |
| R320     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R477     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| R501    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R760     | ERJ6GEY0682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R502    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R761     | ERJ6GEY153  | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R503    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R762     | ERJ6GEY124  | M.RESISTOR CH 1/10W 120K | 1   |         |
| R504-07 | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 4   |         | R763     | ERJ6GEYJ394 | M.RESISTOR CH 1/10W 390K | 1   |         |
| R508    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R764     | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         |
| R509-12 | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390  | 4   |         | R765     | ERJ6GEYJ394 | M.RESISTOR CH 1/10W 390K | 1   |         |
| R513    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R766,67  | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R514    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R768     | ERJ6GEY182  | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R515    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R769     | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1   |         |
| R516    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R770     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R517    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R771     | ERJ6GEY0682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R518    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R772-74  | ERJ6GEY0273 | M.RESISTOR CH 1/10W 27K  | 3   |         |
| R519    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | R775     | ERJ6GEY0823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R520    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R776     | ERJ6GEY0682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R521,22 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2   |         | R777,78  | ERJ6GEY0664 | M.RESISTOR CH 1/10W 560K | 2   |         |
| R523    | ERX12SJ847  | M.RESISTOR 1/2W 0.47     | 1   |         | R779     | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         |
| R524    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R780,01  | ERJ6GEY0333 | M.RESISTOR CH 1/10W 33K  | 2   |         |
| R525    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R782     | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         |
| R526    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R783     | ERJ6GEY153  | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R527    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R784     | ERJ6GEY124  | M.RESISTOR CH 1/10W 120K | 1   |         |
| R528    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R785     | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         |
| R529    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | R786,87  | ERJ6GEYJ394 | M.RESISTOR CH 1/10W 390K | 2   |         |
| R530    | ERJ6GEY0223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R788,89  | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R531    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R790     | ERJ6GEY182  | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R532    | ERX12SJ868  | M.RESISTOR 1/2W 0.68     | 1   |         | R791     | ERJ6GEYJ154 | M.RESISTOR CH 1/10W 150K | 1   |         |
| R533    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         | R792     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R534    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R793     | ERJ6GEY0682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R535    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R794,95  | ERJ6GEY0273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R536    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R796     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R537    | ERX12SJ847  | M.RESISTOR 1/2W 0.47     | 1   |         | R797,98  | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R538-40 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 3   |         | R799     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R541    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R800     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R542    | ERJ6GEY0223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R801,02  | VR80034E103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R543    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R803     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R544    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R804,05  | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2   |         |
| R545    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R806     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R546    | ERX12SJ847  | M.RESISTOR 1/2W 0.47     | 1   |         | R807     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R547-49 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 3   |         | R808     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R550    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R809     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R551    | ERJ6GEY0223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R810,11  | VR80034E103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R553    | ERJ6GEY0R00 | M.RESISTOR CH 1/10W      | 1   |         | R812     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R554    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R813,14  | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2   |         |
| R555-57 | ERJ6GEY0R00 | M.RESISTOR CH 1/10W      | 0 3 |         | R815     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R600    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         | R816     | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R601    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | R817     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R603    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |          |             |                          |     |         |
| R604    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |          |             |                          |     |         |
| R700    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |     |         |
| R701    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | RA700,01 | VCRO202     | RESISTOR ARRAY           | 2   |         |
| R702    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | RA702    | EXBLD8103G  | COMBI. R-R               | 10K | 1       |
| R703    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          |             |                          |     |         |
| R704    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                          |     |         |
| R705    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |          |             |                          |     |         |
| R706    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | SW1,W2   | VSR0032     | VOLTAGE SELECT SWITCH    | 2   |         |
| R707    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         | SW700    | VSR0207     | SWITCH                   | 1   |         |
| R708    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |          |             |                          |     |         |
| R709    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                          |     |         |
| R710    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |          |             |                          |     |         |
| R711    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | TP3-P7   | VJR0646     | TEST POINT               | 1   |         |
| R712    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | TP13     | VJR0646     | TEST POINT               | 1   |         |
| R713,14 | ERJ6GEY0332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | TP15-17  | VJR0646     | TEST POINT               | 3   |         |
| R715    | ERJ6GEY0222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | TP19,20  | VJR0646     | TEST POINT               | 2   |         |
| R716,17 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         | TP102-05 | VJR0646     | TEST POINT               | 4   |         |
| R718    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP108-18 | VJR0646     | TEST POINT               | 11  |         |
| R719-26 | ERJ6GEY0273 | M.RESISTOR CH 1/10W 27K  | 8   |         | TP201,02 | VJR0646     | TEST POINT               | 2   |         |
| R727-40 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 14  |         | TP302-04 | VJR0646     | TEST POINT               | 3   |         |
| R741    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP306    | VJR0646     | TEST POINT               | 1   |         |
| R742,43 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         | TP309-12 | VJR0646     | TEST POINT               | 4   |         |
| R744    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP700-14 | VJR0646     | TEST POINT               | 15  |         |
| R746-50 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         | TPGL-63  | VJR0646     | TEST POINT               | 9   |         |
| R751    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |          |             |                          |     |         |
| R752-54 | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 3   |         |          |             |                          |     |         |
| R755    | ERJ6GEY0223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                          |     |         |
| R756-58 | ERJ6GEY0273 | M.RESISTOR CH 1/10W 27K  | 3   |         | VC101    | ECV12W30K53 | V. CAPACITOR             | 30P | 1       |
| R759    | ERJ6GEY0823 | M.RESISTOR CH 1/10W 82K  | 1   |         |          |             |                          |     |         |



| Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks    |
|----------|--------------|----------------------------|-----|------------|
|          | VEP84095K    | P.C. BOARD M/COMPONENT     |     | FOR AU-65H |
|          |              | MS AUDIO                   |     |            |
|          |              |                            |     |            |
|          |              |                            |     |            |
|          |              |                            |     |            |
|          |              |                            |     |            |
|          |              |                            |     |            |
|          |              |                            |     |            |
|          |              |                            |     |            |
|          |              |                            |     |            |
|          |              | CAPACITORS                 |     |            |
| C1, C2   | ECFA1CU470   | E. CAPACITOR 16V 47U       | 2   |            |
| C3       | ECFA1CU101   | E. CAPACITOR 5.3V 100U     | 1   |            |
| C4       | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |            |
| C5       | ECFA1HNR33S  | E. CAPACITOR 50V 0.33U     | 1   |            |
| C6       | ECUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1   |            |
| C7       | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P  | 1   |            |
| C8       | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |            |
| C9       | ECFA1CU100   | E. CAPACITOR 16V 10U       | 1   |            |
| C10      | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |            |
| C11      | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P  | 1   |            |
| C12      | ECFA1CU100   | E. CAPACITOR 16V 10U       | 1   |            |
| C13, 14  | ECFA1CU470   | E. CAPACITOR 16V 47U       | 2   |            |
| C17      | ECUM1H822KBN | C. CAPACITOR CH 50V 8200P  | 1   |            |
| C18      | ECUM1H681JCN | C. CAPACITOR CH 50V 680P   | 1   |            |
| C201     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |            |
| C102     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |            |
| C103     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |            |
| C104     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |            |
| C105     | ECFA1CU470   | E. CAPACITOR 16V 47U       | 1   |            |
| C106     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |            |
| C107     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |            |
| C108     | ECFA1CU101   | E. CAPACITOR 16V 100U      | 1   |            |
| C109     | ECFA1CN470S  | E. CAPACITOR 16V 47U       | 1   |            |
| C110     | ECFA1CU101   | E. CAPACITOR 16V 100U      | 1   |            |
| C111     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |            |
| C112, 13 | ECFA1CU101   | E. CAPACITOR 16V 100U      | 2   |            |
| C114     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |            |
| C115     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |            |
| C116, 17 | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 2   |            |
| C118     | ECFA1CU470   | E. CAPACITOR 16V 47U       | 1   |            |
| C120     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |            |
| C121     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P    | 1   |            |
| C122     | ECUM1H51JCN  | C. CAPACITOR CH 50V 150P   | 1   |            |
| C124     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |            |
| C125     | ECFA1CU471   | E. CAPACITOR 6.3V 470U     | 1   |            |
| C127, 28 | ECFA1CU470   | E. CAPACITOR 16V 47U       | 2   |            |
| C129     | ECUM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |            |
| C130     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P   | 1   |            |
| C131, 32 | ECFA1CU470   | E. CAPACITOR 16V 47U       | 2   |            |
| C133     | ECUM1H562KBN | C. CAPACITOR CH 50V 5600P  | 1   |            |
| C134, 35 | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 2   |            |
| C136     | ECQP1H472F2  | P. CAPACITOR 50V 4700P     | 1   |            |
| C137     | ECFA1CU100   | E. CAPACITOR 16V 10U       | 1   |            |
| C138     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |            |
| C139     | ECFA1HUR22   | E. CAPACITOR 50V 0.22U     | 1   |            |
| C140, 41 | ECFA1HUR68   | E. CAPACITOR 50V 0.68U     | 2   |            |
| C142     | ECFA1HUR22   | E. CAPACITOR 50V 0.22U     | 1   |            |
| C143     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |            |
| C144     | ECFA1CU100   | E. CAPACITOR 16V 10U       | 1   |            |
| C145     | ECQP1H472F2  | P. CAPACITOR 50V 4700P     | 1   |            |
| C146     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |            |
| C147     | ECQP1H103F2  | P. CAPACITOR 50V 0.01U     | 1   |            |
| C148, 49 | ECQM1H394JF  | P. CAPACITOR 50V 0.39U     | 2   |            |
| C201     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P   | 1   |            |
| C202     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |            |
| C203     | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P  | 1   |            |
| C204, 05 | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 2   |            |
| C206     | ECFA1CN470S  | E. CAPACITOR 16V 47U       | 1   |            |
| C207     | ECUM1H682KBN | C. CAPACITOR CH 50V 6800P  | 1   |            |
| C208     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |            |
| C209     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |            |
| C210     | ECQM1H394JF  | P. CAPACITOR 50V 0.39U     | 1   |            |
| C211     | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P  | 1   |            |
| C212     | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P  | 1   |            |

| Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks |
|----------|--------------|----------------------------|-----|---------|
| C213     | ECUM1H682KBN | C. CAPACITOR CH 50V 6800P  | 1   |         |
| C214     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
| C215     | ECUM1E153KBN | C. CAPACITOR CH 25V 0.015U | 1   |         |
| C216     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |         |
| C217     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
| C218     | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P  | 1   |         |
| C219     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
| C220     | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P  | 1   |         |
| C301     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |         |
| C302     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |         |
| C303     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         |
| C304     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |         |
| C305     | ECFA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
| C306     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         |
| C307     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |         |
| C308     | ECFA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
| C309     | ECFA1CN470S  | E. CAPACITOR 16V 47U       | 1   |         |
| C310     | ECFA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
| C311     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |         |
| C312, 13 | ECFA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
| C314     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |         |
| C315     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |         |
| C316, 17 | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |         |
| C318     | ECFA1CU470   | E. CAPACITOR 16V 47U       | 1   |         |
| C320     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         |
| C321     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P    | 1   |         |
| C322     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P   | 1   |         |
| C324     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |         |
| C325     | ECFA1CU471   | E. CAPACITOR 6.3V 470U     | 1   |         |
| C327, 28 | ECFA1CU470   | E. CAPACITOR 16V 47U       | 2   |         |
| C329     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |         |
| C330     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P   | 1   |         |
| C331, 32 | ECFA1CU470   | E. CAPACITOR 16V 47U       | 2   |         |
| C333     | ECUM1H562KBN | C. CAPACITOR CH 50V 5600P  | 1   |         |
| C334, 35 | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 2   |         |
| C336     | ECQP1H472F2  | P. CAPACITOR 50V 4700P     | 1   |         |
| C337     | ECFA1CU100   | E. CAPACITOR 16V 10U       | 1   |         |
| C338     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |         |
| C339     | ECFA1HUR22   | E. CAPACITOR 50V 0.22U     | 1   |         |
| C340, 41 | ECFA1HUR68   | E. CAPACITOR 50V 0.68U     | 2   |         |
| C342     | ECFA1HUR22   | E. CAPACITOR 50V 0.22U     | 1   |         |
| C343     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |         |
| C344     | ECFA1CU100   | E. CAPACITOR 16V 10U       | 1   |         |
| C345     | ECQP1H472F2  | P. CAPACITOR 50V 4700P     | 1   |         |
| C346     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |         |
| C347     | ECQP1H103F2  | P. CAPACITOR 50V 0.01U     | 1   |         |
| C348, 49 | ECQM1H394JF  | P. CAPACITOR 50V 0.39U     | 2   |         |
| C401     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P   | 1   |         |
| C402     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |         |
| C403     | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P  | 1   |         |
| C404, 05 | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 2   |         |
| C406     | ECFA1CN470S  | E. CAPACITOR 16V 47U       | 1   |         |
| C407     | ECUM1H682KBN | C. CAPACITOR CH 50V 6800P  | 1   |         |
| C408     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |         |
| C409     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |         |
| C410     | ECQM1H394JF  | P. CAPACITOR 50V 0.39U     | 1   |         |
| C411     | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P  | 1   |         |
| C412     | ECUM1H472KBN | C. CAPACITOR CH 50V 4700P  | 1   |         |
| C413     | ECUM1H682KBN | C. CAPACITOR CH 50V 6800P  | 1   |         |
| C414     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         |
| C415     | ECUM1E153KBN | C. CAPACITOR CH 25V 0.015U | 1   |         |
| C416     | ECFA1CN100S  | E. CAPACITOR 16V 10U       | 1   |         |
| C417     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
| C418     | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P  | 1   |         |
| C419     | ECUM1H152KBN | C. CAPACITOR CH 50V 1500P  | 1   |         |
| C420     | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P  | 1   |         |
| C501     | ECFA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |
| C503     | ECFA1CU220   | E. CAPACITOR 16V 22U       | 1   |         |
| C551     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |         |
| C553     | ECFA1AU101   | E. CAPACITOR 10V 100U      | 1   |         |
| C554, 55 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 2   |         |
| C556     | ECFA1VU101   | E. CAPACITOR 35V 100U      | 1   |         |
| C557     | ECFA1EU101   | E. CAPACITOR 25V 100U      | 1   |         |
| C558     | ECQM1H104JF  | P. CAPACITOR 50V 0.1U      | 1   |         |
| C559, 60 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 2   |         |

| Ref.No. | Part No.     | Part Name & Description   | Pcs | Remarks |
|---------|--------------|---------------------------|-----|---------|
| C561    | ECEA1EU100   | E. CAPACITOR 25V 10U      | 1   |         |
| C562    | ECCD2H181J   | C. CAPACITOR 500V 180P    | 1   |         |
| C563    | ECCD2H271J   | C. CAPACITOR 500V 270P    | 1   |         |
| C564    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C565,66 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C567    | ECEA1EU100   | E. CAPACITOR 25V 10U      | 1   |         |
| C568    | ECCD2H181J   | C. CAPACITOR 500V 180P    | 1   |         |
| C569    | ECCD2H271J   | C. CAPACITOR 500V 270P    | 1   |         |
| C570    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C571-73 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C574    | ECEA1EU100   | E. CAPACITOR 25V 10U      | 1   |         |
| C575    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C576    | VCF2JAB182JE | P. CAPACITOR              | 1   |         |
| C577    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C578-80 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C581    | ECEA1EU100   | E. CAPACITOR 25V 10U      | 1   |         |
| C582    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C583    | VCF2JAB182JE | P. CAPACITOR              | 1   |         |
| C584    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C585,86 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C587    | ECEA1EU100   | E. CAPACITOR 25V 10U      | 1   |         |
| C588    | VCF2JAB102JE | P. CAPACITOR              | 1   |         |
| C589    | ECCD2H680K   | C. CAPACITOR 500V 68P     | 1   |         |
| C590    | ECEA1EU470   | E. CAPACITOR 10V 47U      | 1   |         |
| C591    | ECQM1H104JF  | P. CAPACITOR 50V 0.1U     | 1   |         |
| C592-94 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 3   |         |
| C595    | ECEA1EU100   | E. CAPACITOR 25V 10U      | 1   |         |
| C596    | VCF2JAB222JE | P. CAPACITOR              | 1   |         |
| C597    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C598,99 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C600    | ECEA1EU100   | E. CAPACITOR 25V 10U      | 1   |         |
| C601    | VCF2JAB222JE | P. CAPACITOR              | 1   |         |
| C602    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C603,04 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C605    | ECEA1EU100   | E. CAPACITOR 25V 10U      | 1   |         |
| C606    | VCF2JAB222JE | P. CAPACITOR              | 1   |         |
| C607,08 | ECUM1H330JCN | C. CAPACITOR CH 50V 33P   | 2   |         |
| C609    | ECEA1HU3R3   | E. CAPACITOR 50V 3.3U     | 1   |         |
| C610-12 | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 3   |         |
| C701    | ECEA1CN470S  | E. CAPACITOR 16V 47U      | 1   |         |
| C702    | ECUM1H162KBN | C. CAPACITOR CH 50V 1800P | 1   |         |
| C703    | ECUM1H821JCN | C. CAPACITOR CH 50V 820P  | 1   |         |
| C712    | ECEA1HU4R7   | E. CAPACITOR 50V 4.7U     | 1   |         |
| C713    | ECEA1HU3R3   | E. CAPACITOR 50V 3.3U     | 1   |         |
| C714    | ECQM1H682JF  | P. CAPACITOR 50V 6800P    | 1   |         |
| C715    | ECQM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         |
| C716    | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
| C717    | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C719    | ECEA1HU4R7   | E. CAPACITOR 50V 4.7U     | 1   |         |
| C720    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C721    | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         |
| C722    | ECQB1H332JF  | P. CAPACITOR 50V 3300P    | 1   |         |
| C723    | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P | 1   |         |
| C724,25 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2   |         |
| C726    | ECEA1CN100S  | E. CAPACITOR 16V 10U      | 1   |         |
| C727    | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C728    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C729,30 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C731    | ECEA1HU4R7   | E. CAPACITOR 50V 4.7U     | 1   |         |
| C732    | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
| C733    | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P | 1   |         |
| C801    | ECEA1CN470S  | E. CAPACITOR 16V 47U      | 1   |         |
| C802    | ECUM1H162KBN | C. CAPACITOR CH 50V 1800P | 1   |         |
| C803    | ECUM1H821JCN | C. CAPACITOR CH 50V 820P  | 1   |         |
| C804,05 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 2   |         |
| C812    | ECEA1HU4R7   | E. CAPACITOR 50V 4.7U     | 1   |         |
| C813    | ECEA1HU3R3   | E. CAPACITOR 50V 3.3U     | 1   |         |
| C814    | ECQM1H682JF  | P. CAPACITOR 50V 6800P    | 1   |         |
| C815    | ECQM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         |
| C816    | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
| C817    | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C819    | ECEA1HU4R7   | E. CAPACITOR 50V 4.7U     | 1   |         |
| C820    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C821    | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         |
| C822    | ECQB1H332JF  | P. CAPACITOR 50V 3300P    | 1   |         |

| Ref.No. | Part No.     | Part Name & Description   | Pcs   | Remarks |
|---------|--------------|---------------------------|-------|---------|
| C823    | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P | 1     |         |
| C824,25 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2     |         |
| C826    | ECEA1CN100S  | E. CAPACITOR 16V 10U      | 1     |         |
| C827    | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1     |         |
| C828    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1     |         |
| C829,30 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2     |         |
| C831    | ECEA1HU4R7   | E. CAPACITOR 50V 4.7U     | 1     |         |
| C832    | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1     |         |
| C833    | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P | 1     |         |
| C902    | ECEA1AM70    | E. CAPACITOR 10V 47U      | 1     |         |
| C903    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1     |         |
| C904    | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1     |         |
| C905    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1     |         |
| C906,07 | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1     |         |
| C908    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1     |         |
| C909    | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1     |         |
| C910-12 | ECUM1H301JCN | C. CAPACITOR CH 50V 100P  | 3     |         |
| C913-15 | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 3     |         |
| C916    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1     |         |
| C917    | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1     |         |
| C918    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1     |         |
| C920    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1     |         |
| C921,22 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1     |         |
| C923    | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1     |         |
| C924    | ECEA1HU010   | E. CAPACITOR 50V 1U       | 1     |         |
| C925    | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1     |         |
| C926    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1     |         |
| C929    | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1     |         |
| C930,31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2     |         |
| C932    | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1     |         |
| C933    | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1     |         |
| C934,35 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2     |         |
| C936    | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1     |         |
| C937    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1     |         |
| C938-40 | ECEA1CU101   | E. CAPACITOR 16V 100U     | 3     |         |
| C941    | ECEA1HU3R3   | E. CAPACITOR 50V 3.3U     | 1     |         |
| C942    | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1     |         |
| C944    | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1     |         |
| C945,46 | ECEA1CU101   | E. CAPACITOR 16V 100U     | 2     |         |
| C947,48 | ECEA1HU010   | E. CAPACITOR 50V 1U       | 2     |         |
| C949    | ECUM1E104ZFN | C. CAPACITOR CH 25V 0.1U  | 1     |         |
| C950    | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1     |         |
| D1      | MA153        | DIODE                     | 1     |         |
| D2      | MA151K       | DIODE                     | 1     |         |
| D3,D4   | MA3024       | DIODE                     | 2     |         |
| D101    | MA151K       | DIODE                     | 1     |         |
| D301    | MA151K       | DIODE                     | 1     |         |
| D501    | MA153        | DIODE                     | 1     |         |
| D502    | MA151WA      | DIODE                     | 1     |         |
| D552-57 | MA153        | DIODE                     | 6     |         |
| D558-60 | MA3100       | DIODE                     | 3     |         |
| D561-64 | MA153        | DIODE                     | 4     |         |
| D565,66 | MA151K       | DIODE                     | 2     |         |
| D567,68 | MA151WK      | DIODE                     | 2     |         |
| D569    | MA151K       | DIODE                     | 1     |         |
| D570    | MA151WK      | DIODE                     | 1     |         |
| D901    | MA151WK      | DIODE                     | 1     |         |
| D902-04 | MA151K       | DIODE                     | 3     |         |
| D905    | MA153        | DIODE                     | 1     |         |
| FL1     | VLQ0142      | COIL                      | 1     |         |
| FL101   | EIR7QH007Q   | FILTER                    | 1     |         |
| FL102   | VLQ0829      | FILTER                    | 1     |         |
| FL103   | ELM7Q306A    | COIL                      | 1     |         |
| FL201   | VLQ0190      | COIL                      | 4.7MH |         |
| FL202   | VLQ0402      | COIL                      | 1     |         |
| FL301   | EIR7QH007Q   | FILTER                    | 1     |         |
| FL302   | VLQ0829      | FILTER                    | 1     |         |
| FL303   | ELM7Q306A    | COIL                      | 1     |         |
| FL401   | VLQ0190      | COIL                      | 4.7MH |         |

| Ref.No.  | Part No.     | Part Name & Description | Pcs     | Remarks | Ref.No. | Part No.     | Part Name & Description | Pcs     | Remarks |
|----------|--------------|-------------------------|---------|---------|---------|--------------|-------------------------|---------|---------|
| FL402    | VLQ0402      | COIL                    | 1       |         | Q11     | UN2213       | TRANSISTOR-RESISTOR     | 1       |         |
| FL701    | VLFO427      | FILTER                  | 1       |         | Q12     | 2SB710       | TRANSISTOR              | 1       |         |
| FL801    | VLFO427      | FILTER                  | 1       |         | Q13     | UN2113       | TRANSISTOR-RESISTOR     | 1       |         |
| FL901    | ELB41053     | FILTER                  | 1       |         | Q14     | 2SD1328-R    | TRANSISTOR CHIP         | 1 (Q,R) |         |
| FL902    | ELB4M043     | FILTER                  | 1       |         | Q15     | UN2213       | TRANSISTOR-RESISTOR     | 1       |         |
|          |              |                         |         |         | Q10E    | UN2113       | TRANSISTOR-RESISTOR     | 1       |         |
|          |              |                         |         |         | Q102    | UN2213       | TRANSISTOR-RESISTOR     | 1       |         |
|          |              |                         |         |         | Q103-05 | 2SD601-R     | TRANSISTOR CHIP         | 3 (Q,R) |         |
| IC1-C3   | UPD4053BG    | IC                      | 3       |         | Q106    | UN2213       | TRANSISTOR-RESISTOR     | 1       |         |
| IC4      | NUM4558M     | IC                      | 1       |         | Q107    | 2SD1328-R    | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC5,C6   | RC062BM      | IC                      | 2       |         | Q108    | UN2113       | TRANSISTOR-RESISTOR     | 1       |         |
| IC101    | AN6558S      | IC                      | 1       |         | Q109,10 | 2SD601-R     | TRANSISTOR CHIP         | 2 (Q,R) |         |
| IC102    | RC4556MB     | IC                      | 1       |         | Q111,12 | 2SD1011      | TRANSISTOR              | 2       |         |
| IC103    | UPD4053BG    | IC                      | 1       |         | Q113    | 2SA1018-R    | TRANSISTOR              | 1 (R)   |         |
| IC104    | NUM4558M     | IC                      | 1       |         | Q114    | 2SK146       | TRANSISTOR              | 1 (B,L) |         |
| IC105    | TEA0666T     | IC                      | 1       |         | Q115    | 2SD601-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC106    | AN78N09      | IC                      | 1       |         | Q116    | 2SB709-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC107    | AN79N09      | IC                      | 1       |         | Q117    | 2SD601-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC108    | NUM4558M     | IC                      | 1       |         | Q118-20 | UN2213       | TRANSISTOR-RESISTOR     | 3       |         |
| IC201-03 | NUM4558M     | IC                      | 3       |         | Q122    | UN2213       | TRANSISTOR-RESISTOR     | 1       |         |
| IC301    | AN6558S      | IC                      | 1       |         | Q201    | 2SD601-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC302    | RC4556MB     | IC                      | 1       |         | Q202    | 2SB709-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC303    | UPD4053BG    | IC                      | 1       |         | Q203    | 2SD601-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC304    | NUM4558M     | IC                      | 1       |         | Q204    | 2SB709-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC305    | TEA0666T     | IC                      | 1       |         | Q205    | 2SD1328-R    | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC306    | AN78N09      | IC                      | 1       |         | Q301    | UN2113       | TRANSISTOR-RESISTOR     | 1       |         |
| IC307    | AN79N09      | IC                      | 1       |         | Q302    | UN2213       | TRANSISTOR-RESISTOR     | 1       |         |
| IC308    | NUM4558M     | IC                      | 1       |         | Q303-05 | 2SD601-R     | TRANSISTOR CHIP         | 3 (Q,R) |         |
| IC401-03 | NUM4558M     | IC                      | 3       |         | Q306    | UN2213       | TRANSISTOR-RESISTOR     | 1       |         |
| IC552    | MB620412PF   | IC                      | 1       |         | Q307    | 2SD1328-R    | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC553    | AN78L20      | IC                      | 1       |         | Q308    | UN2113       | TRANSISTOR-RESISTOR     | 1       |         |
| IC554-56 | LM2904M      | IC                      | 3       |         | Q309,10 | 2SD601-R     | TRANSISTOR CHIP         | 2 (Q,R) |         |
| IC701    | NUM4558M     | IC                      | 1       |         | Q311,12 | 2SD1011      | TRANSISTOR              | 2       |         |
| IC703    | NUM4558M     | IC                      | 1       |         | Q313    | 2SA1018-R    | TRANSISTOR              | 1 (R)   |         |
| IC801    | NUM4558M     | IC                      | 1       |         | Q314    | 2SK146       | TRANSISTOR              | 1 (B,L) |         |
| IC802    | UPD4053BG    | IC                      | 1       |         | Q315    | 2SD601-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC803,04 | NUM4558M     | IC                      | 2       |         | Q316    | 2SB709-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC805    | BA7700K1     | IC                      | 1       |         | Q317    | 2SD601-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC901    | AN78L12      | IC                      | 1       |         | Q318-20 | UN2213       | TRANSISTOR-RESISTOR     | 3       |         |
| IC902    | AN78L05      | IC                      | 1       |         | Q322    | UN2213       | TRANSISTOR-RESISTOR     | 1       |         |
| IC903    | AN79L09      | IC                      | 1       |         | Q401    | 2SD601-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| IC904    | AN78L09      | IC                      | 1       |         | Q402    | 2SB709-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
|          |              |                         |         |         | Q403    | 2SD601-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
|          |              |                         |         |         | Q404    | 2SB709-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
|          |              |                         |         |         | Q405    | 2SD1328-R    | TRANSISTOR CHIP         | 1 (Q,R) |         |
| LI       | ETR70GD10B   | IF TRANSFORMER          | 1       |         | Q501    | 2SB709-R     | TRANSISTOR CHIP         | 1 (Q,R) |         |
| LI01,02  | VLQEL05S101K | COIL                    | 100UH   | 2       | Q502    | UN2113       | TRANSISTOR-RESISTOR     | 1       |         |
| LI01,02  | VLQEL05S101K | COIL                    | 100UH   | 2       | Q551-62 | UN2213       | TRANSISTOR-RESISTOR     | 12      |         |
| LS51     | VLQEL05S2R2K | COIL                    | 2.2UH   | 1       | Q563,64 | UN2113       | TRANSISTOR-RESISTOR     | 2       |         |
| LS52     | VLQEL05S471K | COIL                    | 47UH    | 1       | Q565-68 | 2SC2295-B    | TRANSISTOR CHIP         | 4 (B,C) |         |
| LS53,54  | VLQEL05S470J | COIL                    | 47UH    | 2       | Q571    | 2SC2497      | TRANSISTOR              | 1       |         |
| L901     | VLQEL05S470J | COIL                    | 47UH    | 1       | Q572    | 2SB710       | TRANSISTOR              | 1       |         |
| L902     | VLQEL05S221J | COIL                    | 22UH    | 1       | Q573,74 | 2SD1994AQRTA | TRANSISTOR              | 2       |         |
| L903     | VLQEL05S101K | COIL                    | 100UH   | 1       | Q575    | 2SC2497      | TRANSISTOR              | 1       |         |
| L904     | VLQEL05S820J | COIL                    | 82UH    | 1       | Q576    | 2SB710       | TRANSISTOR              | 1       |         |
| L905     | VLQEL05S331J | COIL                    | 33UH    | 1       | Q577,78 | 2SD1994AQRTA | TRANSISTOR              | 2       |         |
| L906,07  | VLQEL05S101K | COIL                    | 100UH   | 2       | Q579    | 2SD1992A     | TRANSISTOR              | 1       |         |
| L909     | VLQEL05S271J | COIL                    | 27UH    | 1       | Q580    | 2SB710       | TRANSISTOR              | 1       |         |
| L910-13  | VLQEL05S101K | COIL                    | 100UH   | 4       | Q581,82 | 2SD1994AQRTA | TRANSISTOR              | 2       |         |
|          |              |                         |         |         | Q583    | 2SB710       | TRANSISTOR              | 1       |         |
|          |              |                         |         |         | Q584,85 | 2SD1328-R    | TRANSISTOR CHIP         | 2 (Q,R) |         |
|          |              |                         |         |         | Q586    | 2SD1992A     | TRANSISTOR              | 1       |         |
| P101     | WJP1232R     | CONNECTOR (MALE)        | 5P      | 1       | Q587    | 2SB710       | TRANSISTOR              | 1       |         |
| P301     | WJP1232G     | CONNECTOR (MALE)        | 1       | 1       | Q588,89 | 2SD1994AQRTA | TRANSISTOR              | 2       |         |
| P551     | WJP3080      | CONNECTOR (MALE)        | 1       | 1       | Q590    | 2SB710       | TRANSISTOR              | 1       |         |
| P553     | WJP1230T     | CONNECTOR (MALE)        | 3P      | 1       | Q591,92 | 2SD1328-R    | TRANSISTOR CHIP         | 2 (Q,R) |         |
|          |              |                         |         |         | Q593    | 2SC2497      | TRANSISTOR              | 1       |         |
|          |              |                         |         |         | Q594    | 2SB710       | TRANSISTOR              | 1       |         |
|          |              |                         |         |         | Q595,96 | 2SD1994AQRTA | TRANSISTOR              | 2       |         |
| Q1       | 2SD602       | TRANSISTOR              | 1 (Q,R) |         | Q597    | 2SD1992A     | TRANSISTOR              | 1       |         |
| Q2       | UN2113       | TRANSISTOR-RESISTOR     | 1       |         | Q598    | 2SB710       | TRANSISTOR              | 1       |         |
| Q3       | 2SA1018-R    | TRANSISTOR              | 1 (R)   |         | Q599,00 | 2SD1994AQRTA | TRANSISTOR              | 2       |         |
| Q4,Q5    | 2SC3478A-K   | TRANSISTOR              | 2       |         | Q601    | 2SB710       | TRANSISTOR              | 1       |         |
| Q6       | 2SD602       | TRANSISTOR              | 1 (Q,R) |         | Q602,03 | 2SD1328-R    | TRANSISTOR CHIP         | 2 (Q,R) |         |
| Q7       | 2SD1328-R    | TRANSISTOR CHIP         | 1 (Q,R) |         | Q604    | UN2213       | TRANSISTOR-RESISTOR     | 1       |         |



| Ref. No. | Part No.     | Part Name & Description  | Pcs     | Remarks | Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|--------------|--------------------------|---------|---------|----------|-------------|--------------------------|-----|---------|
| Q605     | 2SB710       | TRANSISTOR               | 1       |         | R115     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q606     | 2SD1992A     | TRANSISTOR               | 1       |         | R116     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q607     | 2SB710       | TRANSISTOR               | 1       |         | R117     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q608,09  | 2SD1994AQRTA | TRANSISTOR               | 2       |         | R118-20  | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 3   |         |
| Q610     | 2SB710       | TRANSISTOR               | 1       |         | R121     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q611,12  | 2SD1328-R    | TRANSISTOR CHIP          | 2 (Q,R) |         | R122     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q613     | UN2213       | TRANSISTOR-RESISTOR      | 1       |         | R123     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q614     | 2SB710       | TRANSISTOR               | 1       |         | R124     | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         |
| Q615     | 2SD1992A     | TRANSISTOR               | 1       |         | R125     | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| Q616     | 2SB710       | TRANSISTOR               | 1       |         | R126     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| Q617,18  | 2SD1994AQRTA | TRANSISTOR               | 2       |         | R127     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q619-27  | AN2213       | TRANSISTOR-RESISTOR      | 9       |         | R128     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| Q701     | 2SD1328-R    | TRANSISTOR CHIP          | 1 (Q,R) |         | R129     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| Q702     | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         | R130     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q801     | 2SD1328-R    | TRANSISTOR CHIP          | 1 (Q,R) |         | R131     | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1   |         |
| Q802     | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         | R133,34  | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| Q901     | UN2113       | TRANSISTOR-RESISTOR      | 1       |         | R135     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| Q902-04  | UN2213       | TRANSISTOR-RESISTOR      | 3       |         | R136     | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| Q909     | 2SC2404-B    | TRANSISTOR CHIP          | 1 (B,C) |         | R137     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q910,11  | 2SD601-R     | TRANSISTOR CHIP          | 2 (Q,R) |         | R138,39  | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 2   |         |
| Q912     | 2SC2404-B    | TRANSISTOR CHIP          | 1 (B,C) |         | R140     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q913,14  | 2SD601-R     | TRANSISTOR CHIP          | 2 (Q,R) |         | R141     | VRE0034E473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| Q915     | 2SC2404-B    | TRANSISTOR CHIP          | 1 (B,C) |         | R142     | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| Q916,17  | 2SD601-R     | TRANSISTOR CHIP          | 2 (Q,R) |         | R143     | VRE0034E470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| Q920     | UN2113       | TRANSISTOR-RESISTOR      | 1       |         | R144     | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         |
|          |              |                          |         |         | R145     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
|          |              |                          |         |         | R146     | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
|          |              |                          |         |         | R147     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
|          |              | RESISTORS                |         |         | R148,49  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R1       | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         | R150     | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R2       | ERJ6GEYG223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R151     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R3,R4    | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 2       |         | R152     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R5       | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         | R153     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R6,R7    | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 2       |         | R154     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R8       | ERJ6GEYJ104  | M.RESISTOR CH 1/10W 100K | 1       |         | R155     | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R9       | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         | R156     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R10      | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470  | 1       |         | R157     | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R11      | ERJ6GEYJ222  | M.RESISTOR CH 1/10W 2.2K | 1       |         | R158     | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R12      | ERJ6GEYJ100  | M.RESISTOR CH 1/10W 10   | 1       |         | R159     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R13      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R160     | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R14      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         | R161     | VRE0034E333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R15      | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 0    | 1       |         | R162     | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R16      | ERJ6GEYJ224  | M.RESISTOR CH 1/10W 220K | 1       |         | R163     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R17      | ERJ6GEYJ562  | M.RESISTOR CH 1/10W 5.6K | 1       |         | R164     | VRE0034E683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R18      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R165     | VRE0034E222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R19      | ERJ6GEYJ331  | M.RESISTOR CH 1/10W 330  | 1       |         | R166     | VRE0034E512 | M.RESISTOR CH 1/10W 5.1K | 1   |         |
| R20      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R167     | VRE0034E822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R21      | ERJ6GEYJ123  | M.RESISTOR CH 1/10W 12K  | 1       |         | R168     | VRE0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         |
| R22      | ERJ6GEYJ104  | M.RESISTOR CH 1/10W 100K | 1       |         | R169     | VRE0034E911 | M.RESISTOR CH 1/10W 910  | 1   |         |
| R23      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         | R201     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R24      | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1       |         | R202     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R25      | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K | 1       |         | R204     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R26      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R205     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R27      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         | R206     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R29      | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1       |         | R207     | ERJ6GEYJ132 | M.RESISTOR CH 1/10W 1.3K | 1   |         |
| R30      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         | R208     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R39      | ERJ6GEYJ104  | M.RESISTOR CH 1/10W 100K | 1       |         | R209     | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R42,43   | ERJ6GEYG223  | M.RESISTOR CH 1/10W 22K  | 2       |         | R210-12  | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 3   |         |
| R44      | ERJ6GEYJ104  | M.RESISTOR CH 1/10W 100K | 1       |         | R213     | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R49      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R214     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R50      | ERJ6GEYG223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R215     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R51      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R216     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R53      | ERJ6GEYOR00  | M.RESISTOR CH 1/10W 0    | 1       |         | R217     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R55      | ERJ6GEYJ682  | M.RESISTOR CH 1/10W 6.8K | 1       |         | R218     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R101,02  | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 2       |         | R219     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R104,05  | ERJ6GEYG223  | M.RESISTOR CH 1/10W 22K  | 2       |         | R220     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R106     | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R221     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R107     | ERJ6GEYJ153  | M.RESISTOR CH 1/10W 15K  | 1       |         | R222     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R108     | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 1       |         | R223     | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R109     | ERJ6GEYJ470  | M.RESISTOR CH 1/10W 47   | 1       |         | R224,25  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R110     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         | R226     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R111     | ERJ6GEYJ393  | M.RESISTOR CH 1/10W 39K  | 1       |         | R227     | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R112     | ERJ6GEYJ104  | M.RESISTOR CH 1/10W 100K | 1       |         | R228     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R113     | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         | R229     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R114     | ERJ6GEYJ332  | M.RESISTOR CH 1/10W 3.3K | 1       |         | R230     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R231    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R232    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R233    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R235    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R236    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R301,02 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R304    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R306    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R307    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R308    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R309    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R310    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R311    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R312    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R313    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R314    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R315    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R316    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R317    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R318-20 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 3   |         |
| R321    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R322    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R323    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R324    | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         |
| R325    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R326    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R327    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R328    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R329    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R330    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R331    | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1   |         |
| R333,34 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R335    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R336    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R337    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R338,39 | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 2   |         |
| R340    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R341    | VRE0034E473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R342    | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R343    | VRE0034E470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R344    | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R345    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R346    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R347    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R348,49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R350    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R351    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R352    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R353    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R354    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R355    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R356    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R357    | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R358    | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R359    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R360    | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R361    | VRE0034E333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R362    | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R363    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R364    | VRE0034E683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R365    | VRE0034E222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R366    | VRE0034E512 | M.RESISTOR CH 1/10W 5.1K | 1   |         |
| R367    | VRE0034E823 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R368    | VRE0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         |
| R369    | VRE0034E911 | M.RESISTOR CH 1/10W 910  | 1   |         |
| R401    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R402-04 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R405    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R406    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R407    | ERJ6GEYJ132 | M.RESISTOR CH 1/10W 1.3K | 1   |         |
| R408    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R409    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R410-12 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 3   |         |
| R413    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R414    | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R415    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R416    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R417    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R418    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R419    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R420    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R421    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |
| R422    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R423    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R424,25 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R426    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R427    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R428    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R429    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R430    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R431    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R432    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R433    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R435    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R436    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R501    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R502,03 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R508    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R509    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R551    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R552    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R553    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R554    | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R555    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R556    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R557    | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R558    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R559    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R560    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R561    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R563    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R564    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R565    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R567    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R569    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R570    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R571    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R572,73 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R574    | ERD52TJ0R2  | C.RESISTOR 1/4W 8.2      | 1   |         |
| R575    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R576    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R577,78 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R579    | ERD52TJ0R2  | C.RESISTOR 1/4W 8.2      | 1   |         |
| R580    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R581    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R582    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R583    | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R584,85 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R586,87 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R588    | ERD52TJ100  | C.RESISTOR 1/4W 10       | 1   |         |
| R589    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R590,91 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R592    | ERJ6GEYK1R0 | M.RESISTOR CH 1/10W 1    | 1   |         |
| R593    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R594    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |
| R595    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R596    | ERJ6GEYJ824 | M.RESISTOR CH 1/10W 820K | 1   |         |
| R597,98 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R599,00 | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 2   |         |
| R601    | ERD52TJ100  | C.RESISTOR 1/4W 10       | 1   |         |
| R602    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R603,04 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R605    | ERJ6GEYK1R0 | M.RESISTOR CH 1/10W 1    | 1   |         |
| R606    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R607    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R608,09 | ERJ6GEYJ220 | M.RESISTOR CH 1/10W 22   | 2   |         |
| R610,11 | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 2   |         |
| R612    | ERD52TJ470  | C.RESISTOR 1/4W 47       | 1   |         |
| R613    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R614    | ERJ6GEYJ683 | M.RESISTOR CH 1/10W 68K  | 1   |         |







| Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks            |
|----------|--------------|----------------------------|-----|--------------------|
|          | VER8409SE    | P.C. BOARD W/COMPONENT     |     | FOR AU-63H, AU-62H |
|          |              | WG AUDIO                   |     |                    |
|          |              |                            |     |                    |
|          |              |                            |     |                    |
|          |              |                            |     |                    |
|          |              |                            |     |                    |
|          |              |                            |     |                    |
|          |              | CAPACITORS                 |     |                    |
| C1, C2   | ECEA1CU470   | E. CAPACITOR 16V 47U       | 2   |                    |
| C3       | ECEA0JU101   | E. CAPACITOR 6.3V 100U     | 1   |                    |
| C5       | ECEA1HNR33S  | E. CAPACITOR 50V 0.33U     | 1   |                    |
| C6       | ECUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1   |                    |
| C8       | ECEA1CN100S  | E. CAPACITOR 16V 10U       | 1   |                    |
| C9       | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |                    |
| C10      | ECEA1CN100S  | E. CAPACITOR 16V 10U       | 1   |                    |
| C11      | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P  | 1   |                    |
| C12      | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |                    |
| C13, 14  | ECEA1CU470   | E. CAPACITOR 16V 47U       | 2   |                    |
| C18      | ECUM1H681JCN | C. CAPACITOR CH 50V 680P   | 1   |                    |
| C106     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |                    |
| C107     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |                    |
| C108     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |                    |
| C109     | ECEA1CM470S  | E. CAPACITOR 16V 47U       | 1   |                    |
| C110     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |                    |
| C111     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |                    |
| C112, 13 | ECEA1CU101   | E. CAPACITOR 16V 100U      | 2   |                    |
| C114     | ECEA1CN100S  | E. CAPACITOR 16V 10U       | 1   |                    |
| C115     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |                    |
| C116     | ECEA1CN100S  | E. CAPACITOR 16V 10U       | 1   |                    |
| C118     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |                    |
| C120     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |                    |
| C121     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P    | 1   |                    |
| C122     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P   | 1   |                    |
| C124     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |                    |
| C125     | ECEA0JU471   | E. CAPACITOR 6.3V 470U     | 1   |                    |
| C127, 28 | ECEA1CU470   | E. CAPACITOR 16V 47U       | 2   |                    |
| C129     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |                    |
| C131, 32 | ECEA1CU470   | E. CAPACITOR 16V 47U       | 2   |                    |
| C133     | ECUM1H562KBN | C. CAPACITOR CH 50V 5600P  | 1   |                    |
| C134, 35 | ECEA1CN100S  | E. CAPACITOR 16V 10U       | 2   |                    |
| C136     | ECQM1H472FZ  | P. CAPACITOR 50V 4700P     | 1   |                    |
| C137     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |                    |
| C138     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |                    |
| C139     | ECEA1HUR22   | E. CAPACITOR 50V 0.22U     | 1   |                    |
| C140, 41 | ECEA1HUR68   | E. CAPACITOR 50V 0.68U     | 2   |                    |
| C142     | ECEA1HUR22   | E. CAPACITOR 50V 0.22U     | 1   |                    |
| C143     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |                    |
| C144     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |                    |
| C145     | ECQM1H472FZ  | P. CAPACITOR 50V 4700P     | 1   |                    |
| C147     | ECQM1H103FZ  | P. CAPACITOR 50V 0.01U     | 1   |                    |
| C148, 49 | ECQM1H394JF  | P. CAPACITOR 50V 0.39U     | 2   |                    |
| C306     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |                    |
| C307     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |                    |
| C308     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |                    |
| C309     | ECEA1CM470S  | E. CAPACITOR 16V 47U       | 1   |                    |
| C310     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |                    |
| C311     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |                    |
| C312, 13 | ECEA1CU101   | E. CAPACITOR 16V 100U      | 2   |                    |
| C314     | ECEA1CN100S  | E. CAPACITOR 16V 10U       | 1   |                    |
| C315     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |                    |
| C316     | ECEA1CN100S  | E. CAPACITOR 16V 10U       | 1   |                    |
| C318     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |                    |
| C320     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |                    |
| C321     | ECUM1H820JCN | C. CAPACITOR CH 50V 82P    | 1   |                    |
| C322     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P   | 1   |                    |
| C324     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1   |                    |
| C325     | ECEA0JU471   | E. CAPACITOR 6.3V 470U     | 1   |                    |
| C327, 28 | ECEA1CU470   | E. CAPACITOR 16V 47U       | 2   |                    |
| C329     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U    | 1   |                    |
| C331, 32 | ECEA1CU470   | E. CAPACITOR 16V 47U       | 2   |                    |
| C333     | ECUM1H562KBN | C. CAPACITOR CH 50V 5600P  | 1   |                    |
| C334, 35 | ECEA1CN100S  | E. CAPACITOR 16V 10U       | 2   |                    |

| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|
| C336     | ECQM1H472FZ  | P. CAPACITOR 50V 4700P    | 1   |         |
| C337     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C338     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U   | 1   |         |
| C339     | ECEA1HUR22   | E. CAPACITOR 50V 0.22U    | 1   |         |
| C340, 41 | ECEA1HUR68   | E. CAPACITOR 50V 0.68U    | 2   |         |
| C342     | ECEA1HUR22   | E. CAPACITOR 50V 0.22U    | 1   |         |
| C343     | ECQM1H473JF  | P. CAPACITOR 50V 0.047U   | 1   |         |
| C344     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C345     | ECQM1H472FZ  | P. CAPACITOR 50V 4700P    | 1   |         |
| C347     | ECQM1H103FZ  | P. CAPACITOR 50V 0.01U    | 1   |         |
| C348, 49 | ECQM1H394JF  | P. CAPACITOR 50V 0.39U    | 2   |         |
| C501     | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C503     | ECEA1CU220   | E. CAPACITOR 16V 22U      | 1   |         |
| C553     | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C701     | ECEA1CM470S  | E. CAPACITOR 16V 47U      | 1   |         |
| C702     | ECUM1H182KBN | C. CAPACITOR CH 50V 1800P | 1   |         |
| C703     | ECUM1H821JCN | C. CAPACITOR CH 50V 820P  | 1   |         |
| C712     | ECEA1HUR47   | E. CAPACITOR 50V 4.7U     | 1   |         |
| C713     | ECEA1HUR33   | E. CAPACITOR 50V 3.3U     | 1   |         |
| C714     | ECQM1H682JF  | P. CAPACITOR 50V 6800P    | 1   |         |
| C715     | ECQM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         |
| C716     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
| C717     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C719     | ECEA1HUR47   | E. CAPACITOR 50V 4.7U     | 1   |         |
| C720     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C721     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         |
| C722     | ECQM1H332JF  | P. CAPACITOR 50V 3300P    | 1   |         |
| C723     | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P | 1   |         |
| C724, 25 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2   |         |
| C726     | ECEA1CN100S  | E. CAPACITOR 16V 10U      | 1   |         |
| C727     | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C728     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C729, 30 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C732     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
| C733     | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P | 1   |         |
| C801     | ECEA1CM470S  | E. CAPACITOR 16V 47U      | 1   |         |
| C802     | ECUM1H182KBN | C. CAPACITOR CH 50V 1800P | 1   |         |
| C803     | ECUM1H821JCN | C. CAPACITOR CH 50V 820P  | 1   |         |
| C804, 05 | ECUM1H222KBN | C. CAPACITOR CH 50V 2200P | 2   |         |
| C812     | ECEA1HUR47   | E. CAPACITOR 50V 4.7U     | 1   |         |
| C813     | ECEA1HUR33   | E. CAPACITOR 50V 3.3U     | 1   |         |
| C814     | ECQM1H682JF  | P. CAPACITOR 50V 6800P    | 1   |         |
| C815     | ECQM1H102JF  | P. CAPACITOR 50V 1000P    | 1   |         |
| C816     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
| C817     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C819     | ECEA1HUR47   | E. CAPACITOR 50V 4.7U     | 1   |         |
| C820     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C821     | ECQM1H103JF  | P. CAPACITOR 50V 0.01U    | 1   |         |
| C822     | ECQM1H332JF  | P. CAPACITOR 50V 3300P    | 1   |         |
| C823     | ECUM1H272KBN | C. CAPACITOR CH 50V 2700P | 1   |         |
| C824, 25 | ECUM1H102KBN | C. CAPACITOR CH 50V 1000P | 2   |         |
| C826     | ECEA1CN100S  | E. CAPACITOR 16V 10U      | 1   |         |
| C827     | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C828     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C829, 30 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C832     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
| C833     | ECUM1H122KBN | C. CAPACITOR CH 50V 1200P | 1   |         |
| C903     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C904     | ECEA1CU101   | E. CAPACITOR 16V 100U     | 1   |         |
| C905     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C906, 07 | ECEA1CU101   | E. CAPACITOR 16V 100U     | 2   |         |
| C917     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |
| C918     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C920     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C921, 22 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C923     | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 1   |         |
| C924     | ECEA1HUR10   | E. CAPACITOR 50V 1U       | 1   |         |
| C925     | ECQM1H223JF  | P. CAPACITOR 50V 0.022U   | 1   |         |
| C926     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C929     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P  | 1   |         |
| C930, 31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C932     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P  | 1   |         |
| C933     | ECUM1H391JCN | C. CAPACITOR CH 50V 390P  | 1   |         |
| C934, 35 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C936     | ECEA1CU100   | E. CAPACITOR 16V 10U      | 1   |         |

| Ref.No.  | Part No.     | Part Name & Description   | Pcs   | Remarks |
|----------|--------------|---------------------------|-------|---------|
| C937     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         |
| C938-40  | ECFA1CU101   | E. CAPACITOR 16V 100U     | 3     |         |
| C941     | ECFA1HU3R3   | E. CAPACITOR 50V 3.3U     | 1     |         |
| C942     | ECFA1CU470   | E. CAPACITOR 16V 47U      | 1     |         |
| C944     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U | 1     |         |
| C945, 46 | ECFA1CU101   | E. CAPACITOR 16V 100U     | 2     |         |
| C947, 48 | ECFA1HU010   | E. CAPACITOR 50V 1U       | 2     |         |
| C949     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1     |         |
| C950     | ECFA1CU101   | E. CAPACITOR 16V 100U     | 1     |         |
|          |              |                           |       |         |
| D1       | MA153        | DIODE                     | 1     |         |
| D2       | MA151K       | DIODE                     | 1     |         |
| D3, D4   | MA3024       | DIODE                     | 2     |         |
| D7       | MA151WK      | DIODE                     | 1     |         |
| D501     | MA153        | DIODE                     | 1     |         |
| D502     | MA151WA      | DIODE                     | 1     |         |
| D903     | MA151K       | DIODE                     | 1     |         |
|          |              |                           |       |         |
| FL101    | EIR7Q0007Q   | FILTER                    | 1     |         |
| FL102    | VLFO829      | FILTER                    | 1     |         |
| FL103    | ELM7Q306A    | COIL                      | 1     |         |
| FL301    | EIR7Q0007Q   | FILTER                    | 1     |         |
| FL302    | VLFO829      | FILTER                    | 1     |         |
| FL303    | ELM7Q306A    | COIL                      | 1     |         |
| FL901    | ELB4L053     | FILTER                    | 1     |         |
| FL902    | ELB4M043     | FILTER                    | 1     |         |
|          |              |                           |       |         |
| IC2, C3  | UPD4053BG    | IC                        | 2     |         |
| IC4      | NUM4558M     | IC                        | 1     |         |
| IC5, C6  | RC082BM      | IC                        | 2     |         |
| IC101    | AN655BS      | IC                        | 1     |         |
| IC104    | NUM4558M     | IC                        | 1     |         |
| IC105    | TEA0666T     | IC                        | 1     |         |
| IC106    | AN78N09      | IC                        | 1     |         |
| IC107    | AN79N09      | IC                        | 1     |         |
| IC108    | NUM4558M     | IC                        | 1     |         |
| IC301    | AN655BS      | IC                        | 1     |         |
| IC304    | NUM4558M     | IC                        | 1     |         |
| IC305    | TEA0666T     | IC                        | 1     |         |
| IC306    | AN78N09      | IC                        | 1     |         |
| IC307    | AN79N09      | IC                        | 1     |         |
| IC308    | NUM4558M     | IC                        | 1     |         |
| IC701    | NUM4558M     | IC                        | 1     |         |
| IC703    | NUM4558M     | IC                        | 1     |         |
| IC801    | NUM4558M     | IC                        | 1     |         |
| IC803    | NUM4558M     | IC                        | 1     |         |
| IC805    | BA7700K1     | IC                        | 1     |         |
| IC901    | AN78L12      | IC                        | 1     |         |
| IC902    | AN78L05      | IC                        | 1     |         |
| IC903    | AN79L09      | IC                        | 1     |         |
| IC904    | AN78L09      | IC                        | 1     |         |
|          |              |                           |       |         |
| L101, 02 | VLQEL05S101K | COIL                      | 100UH | 2       |
| L301, 02 | VLQEL05S101K | COIL                      | 100UH | 2       |
| L552     | VLQEL05S471K | COIL                      | 470UH | 1       |
| L906, 07 | VLQEL05S101K | COIL                      | 100UH | 2       |
| L909     | VLQEL05S271J | COIL                      | 270UH | 1       |
| L910-13  | VLQEL05S101K | COIL                      | 100UH | 4       |
|          |              |                           |       |         |
| P101     | WJ1232R      | CONNECTOR(MALE)           | 5P    | 1       |
| P301     | WJ1232G      | CONNECTOR(MALE)           |       | 1       |
| P553     | WJ1230T      | CONNECTOR(MALE)           | 3P    | 1       |
|          |              |                           |       |         |

| Ref.No.  | Part No.    | Part Name & Description  | Pcs     | Remarks |
|----------|-------------|--------------------------|---------|---------|
| Q1       | 2SD602      | TRANSISTOR               | 1 (Q,R) |         |
| Q11      | UN2211      | TRANSISTOR-RESISTOR      | 1       |         |
| Q12      | 2SB710      | TRANSISTOR               | 1       |         |
| Q13      | UN2113      | TRANSISTOR-RESISTOR      | 1       |         |
| Q14      | 2SD1328-R   | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q15      | UN2213      | TRANSISTOR-RESISTOR      | 1       |         |
| Q107     | 2SD1328-R   | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q106     | UN2113      | TRANSISTOR-RESISTOR      | 1       |         |
| Q114     | 2SK46       | TRANSISTOR               | 1 (B,L) |         |
| Q115     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q116     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q117     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q118-20  | UN2213      | TRANSISTOR-RESISTOR      | 3       |         |
| Q307     | 2SD1328-R   | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q308     | UN2113      | TRANSISTOR-RESISTOR      | 1       |         |
| Q314     | 2SK46       | TRANSISTOR               | 1 (B,L) |         |
| Q315     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q316     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q317     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q318-20  | UN2213      | TRANSISTOR-RESISTOR      | 3       |         |
| Q501     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q502     | UN2113      | TRANSISTOR-RESISTOR      | 1       |         |
| Q503     | UN2213      | TRANSISTOR-RESISTOR      | 1       |         |
| Q504     | 2SD602      | TRANSISTOR               | 1 (Q,R) |         |
| Q701     | 2SD1328-R   | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q702     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q801     | 2SD1328-R   | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q802     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q911     | 2SD601-R    | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q912     | 2SC2404-B   | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q913, 14 | 2SD601-R    | TRANSISTOR CHIP          | 2 (Q,R) |         |
| Q915     | 2SC2404-B   | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q916, 17 | 2SD601-R    | TRANSISTOR CHIP          | 2 (Q,R) |         |
| Q919     | UN2213      | TRANSISTOR-RESISTOR      | 1       |         |
| Q920     | UN2113      | TRANSISTOR-RESISTOR      | 1       |         |
|          |             |                          |         |         |
|          |             | RESISTORS                |         |         |
| R1       | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R2       | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R12      | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1       |         |
| R13      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R14      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R15      | ERJ6GEYR000 | M.RESISTOR CH 1/10W 0    | 1       |         |
| R16      | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1       |         |
| R17      | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1       |         |
| R18      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R19      | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1       |         |
| R20      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R21      | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1       |         |
| R22      | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1       |         |
| R23      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R24      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R25      | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1       |         |
| R26      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R27      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R29      | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1       |         |
| R30      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R39      | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1       |         |
| R42      | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R44      | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1       |         |
| R48      | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1       |         |
| R50      | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R51      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R53      | ERJ6GEYR000 | M.RESISTOR CH 1/10W 0    | 1       |         |
| R55      | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1       |         |
| R120     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1       |         |
| R121     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R122     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R123     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R124     | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1       |         |
| R125     | ERJ6GEYR000 | M.RESISTOR CH 1/10W 0    | 1       |         |
| R126     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1       |         |
| R127     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
|          |             |                          |         |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|---------|-------------|--------------------------|-----|---------|
| R128    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         | R511    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R129    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R701    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R131    | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1   |         | R702.03 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R138,39 | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 2   |         | R704    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R140    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R705    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R141    | VRE0034E473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R706    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R142    | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R707    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R143    | VRE0034E470 | M.RESISTOR CH 1/10W 47   | 1   |         | R709    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R144    | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R710    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R145    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R728,29 | ERJ6GEYJ621 | M.RESISTOR CH 1/10W 620  | 2   |         |
| R147    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R730    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R148,49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R731    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R150    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R732    | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         |
| R151    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R733    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R152    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R734    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R153    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R735    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R154    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R736    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R155    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R737,38 | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R156    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R739    | VRE0034E362 | M.RESISTOR CH 1/10W 3.6K | 1   |         |
| R157    | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R740    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R158    | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R741,42 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R159    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R743-45 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
| R160    | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R801    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R161    | VRE0034E333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R802,03 | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 2   |         |
| R162    | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R804    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R164    | VRE0034E683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R805    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R165    | VRE0034E222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R806    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R166    | VRE0034E512 | M.RESISTOR CH 1/10W 5.1K | 1   |         | R807    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R167    | VRE0034E822 | M.RESISTOR CH 1/10W 8.2K | 1   |         | R809    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R168    | VRE0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         | R810    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R169    | VRE0034E911 | M.RESISTOR CH 1/10W 910  | 1   |         | R828,29 | ERJ6GEYJ621 | M.RESISTOR CH 1/10W 620  | 2   |         |
| R320    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R830    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R321    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R831    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R322    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R832    | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         |
| R323    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R833    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R324    | ERJ6GEYJ112 | M.RESISTOR CH 1/10W 1.1K | 1   |         | R834    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R325    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1   |         | R835    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R326    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R836    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R327    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R837,38 | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R328    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         | R839    | VRE0034E362 | M.RESISTOR CH 1/10W 3.6K | 1   |         |
| R329    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | R840    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R331    | ERJ6GEYJ100 | M.RESISTOR CH 1/10W 10   | 1   |         | R841,42 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R338,39 | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 2   |         | R843,44 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R340    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R845    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R341    | VRE0034E473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R914    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R342    | VRE0034E272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R917,18 | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 2   |         |
| R343    | VRE0034E470 | M.RESISTOR CH 1/10W 47   | 1   |         | R919,20 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 2   |         |
| R344    | VRE0034E104 | M.RESISTOR CH 1/10W 100K | 1   |         | R921    | VRE0034E223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R345    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R922,23 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R347    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R924    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R348,49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R925    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R350    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R926    | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |
| R351    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R927    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R352    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R928    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R353    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R939    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R354    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         | R940    | ERJ6GEYJ560 | M.RESISTOR CH 1/10W 56   | 1   |         |
| R355    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         | R941    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R356    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R942    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R357    | VRE0034E102 | M.RESISTOR CH 1/10W 1K   | 1   |         | R943    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R358    | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R944    | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R359    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R945    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R360    | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R946-48 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R361    | VRE0034E333 | M.RESISTOR CH 1/10W 33K  | 1   |         | R949    | ERJ6GEYJ390 | M.RESISTOR CH 1/10W 39   | 1   |         |
| R362    | VRE0034E823 | M.RESISTOR CH 1/10W 82K  | 1   |         | R950    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R364    | VRE0034E683 | M.RESISTOR CH 1/10W 68K  | 1   |         | R951    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R365    | VRE0034E222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R952    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R366    | VRE0034E512 | M.RESISTOR CH 1/10W 5.1K | 1   |         | R953    | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R367    | VRE0034E822 | M.RESISTOR CH 1/10W 8.2K | 1   |         | R954    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R368    | VRE0034E203 | M.RESISTOR CH 1/10W 20K  | 1   |         | R955,56 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R369    | VRE0034E911 | M.RESISTOR CH 1/10W 910  | 1   |         | R957    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R501    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R958    | ERJ6GEYJ823 | M.RESISTOR CH 1/10W 82K  | 1   |         |
| R502,03 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         | R959    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |
| R508    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R960    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R509    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R961    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R510    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         | R963    | ERJ6GEYJ560 | M.RESISTOR CH 1/10W 56   | 1   |         |







| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks | Ref.No.   | Part No.     | Part Name & Description | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|-----------|--------------|-------------------------|-----|---------|
|          |              |                           |     |         |           |              |                         |     |         |
|          |              |                           |     |         |           |              |                         |     |         |
|          |              |                           |     |         |           |              |                         |     |         |
| B1L      | WJP2899B096  | CONNECTOR (MALE)          | 1   |         | D15       | MA151K       | DIODE                   | 1   |         |
| B1R      | WJP2899B096  | CONNECTOR (MALE)          | 1   |         | D16       | MA151WK      | DIODE                   | 1   |         |
|          |              |                           |     |         | D17       | MA151WA      | DIODE                   | 1   |         |
|          |              |                           |     |         | D18, 19   | MA151K       | DIODE                   | 2   |         |
|          |              |                           |     |         | D20       | MA151WK      | DIODE                   | 1   |         |
|          |              |                           |     |         | D500      | MA151K       | DIODE                   | 1   |         |
|          |              |                           |     |         | D501-06   | 10E1         | DIODE                   | 6   |         |
|          |              |                           |     |         | D507, 08  | MA151K       | DIODE                   | 2   |         |
|          |              | CAPACITORS                |     |         | D509      | 10E1         | DIODE                   | 1   |         |
| C1, C2   | ECUM1H331JCN | C. CAPACITOR CH 50V 330P  | 2   |         | D510      | MA151WK      | DIODE                   | 1   |         |
| C3-C5    | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 3   |         | D511      | MA3039-H     | DIODE                   | 1   |         |
| C6-C9    | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 4   |         | D512      | MA3075H      | DIODE                   | 1   |         |
| C10      | ECBA0JU221   | E. CAPACITOR 6.3V 220U    | 1   |         | D513      | MA3051-H     | DIODE                   | 1   |         |
| C11      | ECBA0JU101   | E. CAPACITOR 6.3V 100U    | 1   |         | D514      | MA3056-H     | DIODE                   | 1   |         |
| C12, 13  | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | D515      | MA3100-H     | DIODE                   | 1   |         |
| C14, 15  | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 2   |         |           |              |                         |     |         |
| C16-18   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 3   |         |           |              |                         |     |         |
| C19      | ECBA1HU3R3   | E. CAPACITOR 50V 3.3U     | 1   |         |           |              |                         |     |         |
| C20      | ECQMIH104JF  | P. CAPACITOR 50V 0.1U     | 1   |         | IC1       | MC14024BF    | IC                      | 1   |         |
| C21-23   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 3   |         | IC2       | MC34051M     | IC                      | 1   |         |
| C25      | ECBA0JU471   | E. CAPACITOR 6.3V 470U    | 1   |         | IC3       | TWP284C43AR6 | IC                      | 1   |         |
| C26, 27  | ECUM1H680JCN | C. CAPACITOR CH 50V 68P   | 2   |         | IC4       | UPD71054GB   | IC                      | 1   |         |
| C28-33   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 6   |         | IC5       | HD641802FB   | IC                      | 1   |         |
| C34      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC6       | TL7705CPSB   | IC                      | 1   |         |
| C35, 36  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |         | IC7       | VS11119      | IC                      | 1   |         |
| C37      | ECBA1CU100   | E. CAPACITOR 16V 10U      | 1   |         | IC8, C9   | MC74HC541F   | IC                      | 2   |         |
| C38-41   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |         | IC10      | MB6221220    | IC                      | 1   |         |
| C42-47   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 6   |         | IC11      | VS10234      | IC                      | 1   |         |
| C50      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |         | IC13      | MC74HC4538F  | IC                      | 1   |         |
| C51      | ECBA1CU100   | E. CAPACITOR 16V 10U      | 1   |         | IC14      | MC74HC541F   | IC                      | 1   |         |
| C52      | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC15      | MC74HC245AF  | IC                      | 1   |         |
| C53      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |         | IC16, 17  | MC74HC138AF  | IC                      | 2   |         |
| C75-82   | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 8   |         | IC18      | MB89363BPF   | IC                      | 1   |         |
| C83, 84  | ECBA1HU010   | E. CAPACITOR 50V 1U       | 2   |         | IC19, 20  | MC14094BF    | IC                      | 2   |         |
| C85      | ECBA1CN100S  | E. CAPACITOR 16V 10U      | 1   |         | IC21      | MB89363BPF   | IC                      | 1   |         |
| C86      | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         | IC24      | MC14013BF    | IC                      | 1   |         |
| C87      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |         | IC25, 26  | MC14027BF    | IC                      | 2   |         |
| C88      | ECBA1CN100S  | E. CAPACITOR 16V 10U      | 1   |         | IC27-29   | MC14538BF    | IC                      | 3   |         |
| C89      | ECUM1H101JCN | C. CAPACITOR CH 50V 100P  | 1   |         | IC30      | MB621176PF   | IC                      | 1   |         |
| C90      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |         | IC31      | MB89363BPF   | IC                      | 1   |         |
| C91      | ECBA1HU010   | E. CAPACITOR 50V 1U       | 1   |         | IC32, 33  | MC14021BF    | IC                      | 2   |         |
| C92      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |         | IC34      | MC14094BF    | IC                      | 1   |         |
| C94      | ECBA1HU010   | E. CAPACITOR 50V 1U       | 1   |         | IC35      | MB89363BPF   | IC                      | 1   |         |
| C95      | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |         | IC36-41   | MC14021BF    | IC                      | 6   |         |
| C96-99   | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 4   |         | IC42      | MB89363BPF   | IC                      | 1   |         |
| C100, 01 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         | IC43, 44  | MC14094BF    | IC                      | 2   |         |
| C102-06  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 5   |         | IC45      | MC14021BF    | IC                      | 1   |         |
| C107     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC46      | MC0455-001SF | IC                      | 1   |         |
| C108-14  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 7   |         | IC47, 48  | MC14050BF    | IC                      | 2   |         |
| C115     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC49      | SN74LS38NS   | IC                      | 1   |         |
| C116-19  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 4   |         | IC50, 51  | MC74HC132AF  | IC                      | 2   |         |
| C120     | ECBA1HU010   | E. CAPACITOR 50V 1U       | 1   |         | IC52      | MC74HC04AF   | IC                      | 1   |         |
| C121-23  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 3   |         | IC53, 54  | MC14049UBF   | IC                      | 2   |         |
| C124     | ECUM1H150JCN | C. CAPACITOR CH 50V 15P   | 1   |         | IC55      | MC74HC00AF   | IC                      | 1   |         |
| C125     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P   | 1   |         | IC56      | M74F32FP     | IC                      | 1   |         |
| C127-38  | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 12  |         | IC57      | HM4030BS     | IC                      | 1   |         |
| C140     | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 1   |         | IC58      | MC74HC541F   | IC                      | 1   |         |
| C141     | ECBA1HU2R2   | E. CAPACITOR 50V 2.2U     | 1   |         | IC59      | LM2903M      | IC                      | 1   |         |
| C142     | ECQMIH154JF  | P. CAPACITOR 50V 0.15U    | 1   |         | IC60, 61  | NJM2901M     | IC                      | 2   |         |
| C143     | ECQMIH104JF  | P. CAPACITOR 50V 0.1U     | 1   |         | IC62      | MC74HC00AF   | IC                      | 1   |         |
| C147, 48 | ECUM1H1032FN | C. CAPACITOR CH 50V 0.01U | 2   |         | IC63      | MC74HC138AF  | IC                      | 1   |         |
| C151     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         | IC64, 65  | MC14021BF    | IC                      | 2   |         |
| C154     | ECUM1H102JCN | C. CAPACITOR CH 50V 1000P | 1   |         | IC66, 67  | MC14094BF    | IC                      | 2   |         |
| C500-02  | ECBA1EU4R7   | E. CAPACITOR 25V 4.7U     | 3   |         | IC68      | MB89363BPF   | IC                      | 1   |         |
| C503-05  | ECBA1NN2R2S  | E. CAPACITOR 50V 2.2U     | 3   |         | IC69      | TC74HC190AF  | IC                      | 1   |         |
| C506-08  | ECBA1EU101   | E. CAPACITOR 25V 100U     | 3   |         | IC71      | MC14538BF    | IC                      | 1   |         |
|          |              |                           |     |         | IC72      | MC74HC86F    | IC                      | 1   |         |
|          |              |                           |     |         | IC75      | HM4030BS     | IC                      | 1   |         |
|          |              |                           |     |         | IC500     | PU3124       | IC                      | 1   |         |
|          |              |                           |     |         | IC501     | PU4124       | IC                      | 1   |         |
| D1       | MA151WA      | DIODE                     | 1   |         | IC502, 03 | BA6238AU2H   | IC                      | 2   |         |
| D2       | MA153        | DIODE                     | 1   |         | IC75      | VJS2336AO32  | CONNECTOR (FEMALE)      | 1   |         |
| D3       | MA151K       | DIODE                     | 1   |         | IC108     | VJS2336AO18  | CONNECTOR (FEMALE)      | 1   |         |
| D4, 89   | MA151WA      | DIODE                     | 2   |         |           |              |                         |     |         |
| D6-D9    | MA151K       | DIODE                     | 4   |         |           |              |                         |     |         |
| D10-13   | MA151K       | DIODE                     | 4   |         |           |              |                         |     |         |



| Ref.No.  | Part No.     | Part Name & Description  | Pcs     | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|--------------|--------------------------|---------|---------|----------|-------------|--------------------------|-----|---------|
| L1       | VLP0017      | COIL                     | 1       |         | R126, 27 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| L2       | VLQEL05S150J | COIL 150H                | 1       |         | R128     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
|          |              |                          |         |         | R129     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|          |              |                          |         |         | R130-32  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
|          |              |                          |         |         | R133, 34 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
|          |              |                          |         |         | R136     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q1       | 2SB710       | TRANSISTOR               | 1 (Q,R) |         | R137-43  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 7   |         |
| Q2       | DTCL44EK     | TRANSISTOR-RESISTOR      | 1       |         | R144     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q3, Q4   | DTCL14YK     | TRANSISTOR-RESISTOR      | 2       |         | R145     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q5       | UN2214       | TRANSISTOR-RESISTOR      | 1       |         | R146     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q7-Q9    | DTCL44EK     | TRANSISTOR-RESISTOR      | 3       |         | R147     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q9       | UN2214       | TRANSISTOR-RESISTOR      | 1       |         | R148     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q10-13   | DTCL44EK     | TRANSISTOR-RESISTOR      | 4       |         | R149     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q15      | 2SB710       | TRANSISTOR               | 1 (Q,R) |         | R150     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q16      | 2SD602       | TRANSISTOR               | 1 (Q,R) |         | R151     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q17-22   | DTCL44EK     | TRANSISTOR-RESISTOR      | 6       |         | R152     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q25-47   | DTCL44EK     | TRANSISTOR-RESISTOR      | 23      |         | R153     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q48      | 2SD946A      | TRANSISTOR               | 1       |         | R154     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q49      | DTCL44EK     | TRANSISTOR-RESISTOR      | 1       |         | R155     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q500, Q1 | UN2213       | TRANSISTOR-RESISTOR      | 2       |         | R156, 57 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| Q502, Q3 | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q,R) |         | R158     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q504     | UN2213       | TRANSISTOR-RESISTOR      | 1       |         | R159     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q505, Q6 | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q,R) |         | R160, 61 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| Q507     | UN2213       | TRANSISTOR-RESISTOR      | 1       |         | R162     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q508, Q9 | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q,R) |         | R163     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q510-14  | UN2213       | TRANSISTOR-RESISTOR      | 5       |         | R164     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| Q515     | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         | R165     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|          |              |                          |         |         | R166     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
|          |              |                          |         |         | R167     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|          |              |                          |         |         | R168, 69 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
|          |              | RESISTORS                |         |         | R170     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R1       | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R171     | VRB0034E623 | M.RESISTOR CH 1/10W 62K  | 1   |         |
| R2       | ERJ6GEYJ000  | M.RESISTOR CH 1/10W      | 1       |         | R172     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R3       | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R173-83  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 11  |         |
| R4       | ERJ6GEYJ000  | M.RESISTOR CH 1/10W 0    | 1       |         | R184-86  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
| R5       | ERJ6GEYJ562  | M.RESISTOR CH 1/10W 5.6K | 1       |         | R187-91  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         |
| R6       | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R192, 93 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R7-R9    | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 3       |         | R194-01  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 8   |         |
| R10      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R202     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R11      | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1       |         | R203-06  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         |
| R12      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         | R207, 08 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R13, 14  | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 2       |         | R209, 10 | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R15      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         | R211     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R16      | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1       |         | R212     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R17      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R213     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R18      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         | R214     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R19-22   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 4       |         | R215     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R23-31   | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 9       |         | R216, 17 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R32      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         | R218, 19 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R33      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         | R220     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R34      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R221     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R35      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R222     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R36      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R223     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R37-47   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 11      |         | R224     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R48      | ERJ6GEYJ474  | M.RESISTOR CH 1/10W 470K | 1       |         | R225     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R49      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R226     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R50      | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R227     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R51, 52  | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 2       |         | R228     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R53      | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R229     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R54-72   | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 19      |         | R230     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R73-77   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 5       |         | R231     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R79      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R232     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R81-85   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 5       |         | R233, 34 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R86, 87  | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 2       |         | R235     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R88      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R236-39  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 4   |         |
| R93-96   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 4       |         | R240     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R97      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         | R241-45  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 5   |         |
| R100     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         | R247     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R101     | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R248, 49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R102, Q3 | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 2       |         | R250     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R104     | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R251     | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R105     | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R252     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R106     | ERJ6GEYJ474  | M.RESISTOR CH 1/10W 470K | 1       |         | R253     | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R107-22  | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 16      |         | R254     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R123-25  | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 3       |         | R255     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |





| Ref.No.  | Part No.     | Part Name & Description  | Pcs     | Remarks | Ref.No.  | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|--------------|--------------------------|---------|---------|----------|-------------|--------------------------|-----|---------|
| IC501    | FU4124       | IC                       | 1       |         | R101     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| IC502,03 | DA6238AU2M   | IC                       | 2       |         | R102,03  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| IC7S     | VJS2336A032  | CONNECTOR (FEMALE)       | 1       |         | R104     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| IC10S    | VJS2336A018  | CONNECTOR (FEMALE)       | 1       |         | R105     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
|          |              |                          |         |         | R106     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
|          |              |                          |         |         | R107-22  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 16  |         |
|          |              |                          |         |         | R123-25  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 3   |         |
| L1       | VLPO017      | COIL                     | 1       |         | R126,27  | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| L2       | VLQEL05S150J | COIL 150N                | 1       |         | R128     | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
|          |              |                          |         |         | R129     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|          |              |                          |         |         | R130-32  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
|          |              |                          |         |         | R133,34  | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| Q1       | 2SB710       | TRANSISTOR               | 1 (Q,R) |         | R135     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q2       | UTC144EK     | TRANSISTOR-RESISTOR      | 1       |         | R136     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q3,Q4    | UTC114YK     | TRANSISTOR-RESISTOR      | 2       |         | R137-43  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 7   |         |
| Q5       | UN2214       | TRANSISTOR-RESISTOR      | 1       |         | R144     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q9       | UN2214       | TRANSISTOR-RESISTOR      | 1       |         | R145     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q15      | 2SB710       | TRANSISTOR               | 1 (Q,R) |         | R146     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q16      | 2SD602       | TRANSISTOR               | 1 (Q,R) |         | R147     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q17-22   | UTC144EK     | TRANSISTOR-RESISTOR      | 6       |         | R148     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q25-27   | UTC144EK     | TRANSISTOR-RESISTOR      | 3       |         | R149     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q29-35   | UTC144EK     | TRANSISTOR-RESISTOR      | 7       |         | R150     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q38-42   | UTC144EK     | TRANSISTOR-RESISTOR      | 5       |         | R151     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q44      | UTC144EK     | TRANSISTOR-RESISTOR      | 1       |         | R152     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| Q46,47   | UTC144EK     | TRANSISTOR-RESISTOR      | 2       |         | R153     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q48      | 2SD946A      | TRANSISTOR               | 1       |         | R154     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| Q500,01  | UN2213       | TRANSISTOR-RESISTOR      | 2       |         | R155     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| Q502,03  | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q,R) |         | R156,57  | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| Q504     | UN2213       | TRANSISTOR-RESISTOR      | 1       |         | R158     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q505,06  | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q,R) |         | R159     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q507     | UN2213       | TRANSISTOR-RESISTOR      | 1       |         | R160,61  | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| Q508,09  | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q,R) |         | R162     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| Q510-14  | UN2213       | TRANSISTOR-RESISTOR      | 5       |         | R163     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q515     | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         | R164     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
|          |              |                          |         |         | R165     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|          |              |                          |         |         | R166     | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
|          |              |                          |         |         | R167     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
|          |              |                          |         |         | R168,69  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
|          |              | RESISTORS                |         |         | R170     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R1       | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R171     | VRE0034E523 | M.RESISTOR CH 1/10W 62K  | 1   |         |
| R2       | ERJ6GEYJ000  | M.RESISTOR CH 1/10W 0    | 1       |         | R172     | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R3       | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R173-83  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 11  |         |
| R4       | ERJ6GEYJ000  | M.RESISTOR CH 1/10W 0    | 1       |         | R184-86  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
| R5       | ERJ6GEYJ562  | M.RESISTOR CH 1/10W 5.6K | 1       |         | R187-91  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         |
| R6       | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R192,93  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R7-R9    | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 3       |         | R194-01  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 8   |         |
| R10      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R202     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R11      | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1       |         | R203-06  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         |
| R12      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         | R207,08  | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R13,14   | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 2       |         | R209,10  | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R15      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         | R211     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R16      | ERJ6GEYJ152  | M.RESISTOR CH 1/10W 1.5K | 1       |         | R212     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R17      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R213     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R18      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         | R214     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R19-22   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 4       |         | R215     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R23-31   | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 9       |         | R216,17  | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R32      | ERJ6GEYJ472  | M.RESISTOR CH 1/10W 4.7K | 1       |         | R218,19  | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R33      | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         | R220     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R34      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R221     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R35      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R222     | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R36      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R223     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R37-47   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 11      |         | R224     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R48      | ERJ6GEYJ474  | M.RESISTOR CH 1/10W 470K | 1       |         | R225     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R49      | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         | R226     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R50      | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R227     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R51,52   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 2       |         | R228     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R53      | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         | R229     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R54-72   | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 19      |         | R230     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R73-77   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 5       |         | R231     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R79      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R232     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R81-85   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 5       |         | R233, 34 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R86,87   | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 2       |         | R235     | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R88      | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         | R236-39  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 4   |         |
| R93-96   | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 4       |         | R240     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R97      | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         | R241-45  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 5   |         |
| R100     | ERJ6GEYJ101  | M.RESISTOR CH 1/10W 100  | 1       |         |          |             |                          |     |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R247    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R248.49 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R250    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R251    | ERJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |
| R252    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R253    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R254    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R255    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R256    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R257    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R258    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R259.60 | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R261    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |
| R262    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R263    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R264.65 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R266-68 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 3   |         |
| R269    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R270    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R272-77 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 6   |         |
| R278-85 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 8   |         |
| R286    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R287    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R288.89 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R290    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R291.92 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R294    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R295    | ERJ6GEYJ564 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R296    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R301    | ERJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R302.03 | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         |
| R304    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R502    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R504    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R505    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R506    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R507    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R508    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R509    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R510    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R511    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R512    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R513    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R514    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R515    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R516    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R517    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R518    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R519    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R520    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R521    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R522    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R523    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R524    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R525    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R526    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R527    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R528    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R529    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R530    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R531.32 | ERX1S-J1R0  | M.RESISTOR 1W 1.0        | 2   |         |
| R533    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R536    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R537    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R538    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R539    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R540    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R541    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R542    | ERJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |
| R543    | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |
| SW1     | VSS0223     | SWITCH                   | 1   |         |
| SW3     | VSR0045     | SWITCH                   | 1   |         |

| Ref.No. | Part No.    | Part Name & Description | Pcs | Remarks |
|---------|-------------|-------------------------|-----|---------|
| SW4-W6  | EVQGEJ06K   | SWITCH                  | 3   |         |
| SW7     | VST0096     | SWITCH                  | 1   |         |
| TP17-19 | VJR0646     | TEST POINT              | 3   |         |
| TPG1.G2 | VJR0646     | TEST POINT              | 2   |         |
| VC1     | ECV12W20K60 | V.CAPACITOR 20P         | 1   |         |
| X1      | VSN0373     | CRYSTAL OSCILLATOR      | 1   |         |
|         |             | MISCELLANEOUS           |     |         |
|         | VGN0520     | SLIDE SW SHEET          | 1   |         |
|         | VGN2426     | SLIDE SW SHEET          | 1   |         |
|         | VNL2143     | CARD PULLER             | 1   |         |
|         | VNL2144     | CARD PULLER             | 1   |         |
|         | VNL21548    | BARRIER                 | 1   |         |
|         | VSC3056     | SHIELD CASE             | 1   |         |
|         | VSC3059     | SHIELD CASE             | 1   |         |
|         | VQA3967     | P.C.B. SHIELD PLATE     | 1   |         |
|         | XNG26E      | NUT                     | 4   |         |
|         | XNG3ES      | NUT                     | 2   |         |
|         | XSN3+6S     | SCREW                   | 2   |         |
|         | XYNV3+K6FR  | SCREW                   | 4   |         |
|         | XYN26+CL0   | SCREW                   | 4   |         |





| Ref.No.  | Part No.    | Part Name & Description  | Pcs     | Remarks |
|----------|-------------|--------------------------|---------|---------|
| IC501    | PU4124      | IC                       | 1       |         |
| IC502,03 | BA6238AD2M  | IC                       | 2       |         |
| IC75     | VJ52336AD32 | CONNECTOR (FEMALE)       | 1       |         |
| IC105    | VJ52336AD18 | CONNECTOR (FEMALE)       | 1       |         |
|          |             |                          |         |         |
|          |             |                          |         |         |
| L1       | VLP0017     | COIL                     | 1       |         |
| L2       | VLDL05S150J | COIL 150H                | 1       |         |
|          |             |                          |         |         |
|          |             |                          |         |         |
| Q1       | 2SB710      | TRANSISTOR               | 1 (Q,R) |         |
| Q2       | DTIC144EK   | TRANSISTOR-RESISTOR      | 1       |         |
| Q3, Q4   | DTIC114YK   | TRANSISTOR-RESISTOR      | 2       |         |
| Q5       | UN2214      | TRANSISTOR-RESISTOR      | 1       |         |
| Q9       | UN2214      | TRANSISTOR-RESISTOR      | 1       |         |
| Q15      | 2SB710      | TRANSISTOR               | 1 (Q,R) |         |
| Q16      | 2SD602      | TRANSISTOR               | 1 (Q,R) |         |
| Q17-22   | DTIC144EK   | TRANSISTOR-RESISTOR      | 6       |         |
| Q25-27   | DTIC144EK   | TRANSISTOR-RESISTOR      | 3       |         |
| Q29-35   | DTIC144EK   | TRANSISTOR-RESISTOR      | 7       |         |
| Q38-42   | DTIC144EK   | TRANSISTOR-RESISTOR      | 5       |         |
| Q44      | DTIC144EK   | TRANSISTOR-RESISTOR      | 1       |         |
| Q46,47   | DTIC144EK   | TRANSISTOR-RESISTOR      | 2       |         |
| Q48      | 2SD946A     | TRANSISTOR               | 1       |         |
| Q500,01  | UN2213      | TRANSISTOR-RESISTOR      | 2       |         |
| Q502,03  | 2SB709-R    | TRANSISTOR CHIP          | 2 (Q,R) |         |
| Q504     | UN2213      | TRANSISTOR-RESISTOR      | 1       |         |
| Q505,06  | 2SB709-R    | TRANSISTOR CHIP          | 2 (Q,R) |         |
| Q507     | UN2213      | TRANSISTOR-RESISTOR      | 1       |         |
| Q508,09  | 2SB709-R    | TRANSISTOR CHIP          | 2 (Q,R) |         |
| Q510-14  | UN2213      | TRANSISTOR-RESISTOR      | 5       |         |
| Q515     | 2SB709-R    | TRANSISTOR CHIP          | 1 (Q,R) |         |
|          |             |                          |         |         |
|          |             |                          |         |         |
|          |             | RESISTORS                |         |         |
| R1       | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R2       | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1       |         |
| R3       | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R4       | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1       |         |
| R5       | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1       |         |
| R6       | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R7-R9    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 3       |         |
| R10      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R11      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1       |         |
| R12      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1       |         |
| R13,14   | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 2       |         |
| R15      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1       |         |
| R16      | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K | 1       |         |
| R17      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R18      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R19-22   | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 4       |         |
| R23-31   | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 9       |         |
| R32      | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1       |         |
| R33      | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R34      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R35      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R36      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R37-47   | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 11      |         |
| R48      | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1       |         |
| R49      | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R50      | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R51,52   | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2       |         |
| R53      | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1       |         |
| R54-72   | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 19      |         |
| R73-77   | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 5       |         |
| R79      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R81-85   | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 5       |         |
| R86,87   | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 2       |         |
| R88      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R93-96   | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 4       |         |
| R97      | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1       |         |
| R100     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1       |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R101    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R102,03 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R104    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R105    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R106    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R107-22 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 16  |         |
| R123-25 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 3   |         |
| R126,27 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| R128    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R129    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R130-32 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
| R133,34 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| R135    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R136    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R137-43 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 7   |         |
| R144    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R145    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R146    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R147    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R148    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R149    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R150    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R151    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R152    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R153    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R154    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R155    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R156,57 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R158    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R159    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R160,61 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R162    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R163    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R164    | ERJ6GEYJ106 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R165    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R166    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R167    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R168,69 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |
| R170    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R171    | VRB00346623 | M.RESISTOR CH 1/10W 62K  | 1   |         |
| R172    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |
| R173-83 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 11  |         |
| R184-86 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 3   |         |
| R187-91 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 5   |         |
| R192,93 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R194-01 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 8   |         |
| R202    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R203-06 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 4   |         |
| R207,08 | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R209,10 | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 2   |         |
| R211    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R212    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R213    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R214    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R215    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R216,17 | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R218,19 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R220    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R221    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R222    | ERJ6GEYJ474 | M.RESISTOR CH 1/10W 470K | 1   |         |
| R223    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R224    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R225    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R226    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R227    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R228    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R229    | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R230    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R231    | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R232    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R233,34 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |
| R235    | ERJ6GEYG223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R236-39 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 4   |         |
| R240    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R241-45 | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 5   |         |

| Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref. No. | Part No.    | Part Name & Description | Pcs                 | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|-------------------------|---------------------|---------|
| R247     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | SM4-W6   | EVQGEJ06K   | SWITCH                  | 3                   |         |
| R248, 49 | BRJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | SM7      | VST0096     | SWITCH                  | 1                   |         |
| R250     | BRJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |                     |         |
| R251     | BRJ6GEYJ123 | M.RESISTOR CH 1/10W 12K  | 1   |         |          |             |                         |                     |         |
| R252     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | TP17-19  | VJR0646     | TEST POINT              | 3                   |         |
| R253     | BRJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         | TP61, G2 | VJR0646     | TEST POINT              | 2                   |         |
| R254     | BRJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |                     |         |
| R255     | BRJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |          |             |                         |                     |         |
| R256     | BRJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |                     |         |
| R257     | BRJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | VC1      | BCV12W20X60 | V. CAPACITOR            | 20P                 | 1       |
| R258     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |                     |         |
| R259, 60 | BRJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |          |             |                         |                     |         |
| R261     | BRJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         |          |             |                         |                     |         |
| R262     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | X1       | VSR0373     | CRYSTAL OSCILLATOR      | 1                   |         |
| R263     | BRJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |          |             |                         |                     |         |
| R264, 65 | BRJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         |          |             |                         |                     |         |
| R266-68  | BRJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 3   |         |          |             | MISCELLANEOUS           |                     |         |
| R269     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |                     |         |
| R270     | BRJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |          |             |                         |                     |         |
| R272-77  | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 6   |         |          |             | VGH0520                 | SLIDE SW SHEET      | 1       |
| R278-85  | BRJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          |             | VGH2426                 | SLIDE SW SHEET      | 1       |
| R286     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             | WML2143                 | CARD PULLER         | 1       |
| R287     | BRJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             | WML2144                 | CARD PULLER         | 1       |
| R288, 89 | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |          |             | WE1548                  | BARRIER             | 1       |
| R290     | BRJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          |             | VSC3058                 | SHIELD CASE         | 1       |
| R291, 92 | BRJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |          |             | VSC3059                 | SHIELD CASE         | 1       |
| R294     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             | VKA3967                 | P.C.B. SHIELD PLATE | 1       |
| R295     | BRJ6GEYJ564 | M.RESISTOR CH 1/10W 560K | 1   |         |          |             | DNG26E                  | NUT                 | 1       |
| R296     | BRJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          |             | DNG3ES                  | NUT                 | 1       |
| R301     | BRJ6GEYJ563 | M.RESISTOR CH 1/10W 56K  | 1   |         |          |             | XSN3+6S                 | SCREW               | 1       |
| R302, 03 | BRJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 2   |         |          |             | XYNV3+K6FR              | SCREW               | 1       |
| R304     | BRJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |          |             | XYN26+C10               | SCREW               | 1       |
| R502     | BRJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |          |             |                         |                     |         |
| R504     | BRJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |          |             |                         |                     |         |
| R505     | BRJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |                     |         |
| R506     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |                     |         |
| R507     | BRJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |                     |         |
| R508     | BRJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |                     |         |
| R509     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |                     |         |
| R510     | BRJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |                     |         |
| R511     | BRJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |                     |         |
| R512     | BRJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |                     |         |
| R513     | BRJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |          |             |                         |                     |         |
| R514     | BRJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |                     |         |
| R515     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |                     |         |
| R516     | BRJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |                     |         |
| R517     | BRJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |                     |         |
| R518     | BRJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |                     |         |
| R519     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |                     |         |
| R520     | BRJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |                     |         |
| R521     | BRJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |                     |         |
| R522     | BRJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |          |             |                         |                     |         |
| R523     | BRJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |                     |         |
| R524     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |                     |         |
| R525     | BRJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |                     |         |
| R526     | BRJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |                     |         |
| R527     | BRJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |                     |         |
| R528     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |                     |         |
| R529     | BRJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |                     |         |
| R530     | BRJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |                     |         |
| R531, 32 | BRX1S11R0   | M.RESISTOR 1W 1.0        | 2   |         |          |             |                         |                     |         |
| R533     | BRJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |                     |         |
| R536     | BRJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |          |             |                         |                     |         |
| R537     | BRJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |          |             |                         |                     |         |
| R538     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                         |                     |         |
| R539     | BRJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |          |             |                         |                     |         |
| R540     | BRJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                         |                     |         |
| R541     | BRJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         |          |             |                         |                     |         |
| R542     | BRJ6GEYJ272 | M.RESISTOR CH 1/10W 2.7K | 1   |         |          |             |                         |                     |         |
| R543     | BRJ6GEYJ271 | M.RESISTOR CH 1/10W 270  | 1   |         |          |             |                         |                     |         |
|          |             |                          |     |         |          |             |                         |                     |         |
|          |             |                          |     |         |          |             |                         |                     |         |
| SW1      | VSS0223     | SWITCH                   | 1   |         |          |             |                         |                     |         |
| SW3      | VSR0045     | SWITCH                   | 1   |         |          |             |                         |                     |         |



[illegible]







| Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref. No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|----------|-------------|--------------------------|-----|---------|----------|-------------|--------------------------|-----|---------|
| Q403     | 2SC1847-R   | TRANSISTOR               | 1   | (R)     | R223     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| Q404     | 2SA886-R    | TRANSISTOR               | 1   |         | R224     | ERJ6GEY0562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| Q701     | 2SC1847-R   | TRANSISTOR               | 1   | (R)     | R225     | ERJ6GEY0222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| Q702     | 2SA886-R    | TRANSISTOR               | 1   |         | R226     | ERJ6GEY0681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| Q703     | 2SC1847-R   | TRANSISTOR               | 1   | (R)     | R227     | ERJ6GEY1122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| Q704     | 2SA886-R    | TRANSISTOR               | 1   |         | R228, 29 | ERG12SJ220  | M.RESISTOR 1/2W 22       | 2   |         |
| Q801     | 2SD602      | TRANSISTOR               | 1   | (Q,R)   | R230     | ERX12SJ4R7  | M.RESISTOR 1/2W 4.7      | 1   |         |
| Q802     | 2SB710      | TRANSISTOR               | 1   | (Q,R)   | R231     | ERJ6GEY1103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q803, 04 | UN2213      | TRANSISTOR-RESISTOR      | 2   |         | R232     | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| Q805     | UN2114      | TRANSISTOR-RESISTOR      | 1   |         | R233     | VRE0034E330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| Q806     | UN2213      | TRANSISTOR-RESISTOR      | 1   |         | R234     | ERJ6GEY1103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| Q807     | UN2114      | TRANSISTOR-RESISTOR      | 1   |         | R235, 36 | ERG12SJ220  | M.RESISTOR 1/2W 22       | 2   |         |
|          |             |                          |     |         | R237     | ERX12SJ4R7  | M.RESISTOR 1/2W 4.7      | 1   |         |
|          |             |                          |     |         | R319     | ERJ6GEY0301 | M.RESISTOR CH 1/10W 300  | 1   |         |
|          |             |                          |     |         | R320     | ERJ6GEY0152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
|          |             | RESISTORS                |     |         | R321     | ERJ6GEY0332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R1-R3    | VRE0034E472 | M.RESISTOR CH 1/10W 4.7K | 3   |         | R322     | ERJ6GEY0821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R4       | ERJ6GEY1105 | M.RESISTOR CH 1/10W 11K  | 1   |         | R323     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R5       | VRE0034E153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R324     | ERJ6GEY0562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R6       | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R325     | ERJ6GEY0222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R7, R8   | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R326     | ERJ6GEY0681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R9       | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R327     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R10      | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         | R328, 29 | ERG12SJ220  | M.RESISTOR 1/2W 22       | 2   |         |
| R11, 12  | VRE0034E153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R330     | ERX12SJ4R7  | M.RESISTOR 1/2W 4.7      | 1   |         |
| R13, 14  | VRE0034E472 | M.RESISTOR CH 1/10W 4.7K | 2   |         | R331     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R15      | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 11K  | 1   |         | R332     | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R16      | VRE0034E153 | M.RESISTOR CH 1/10W 15K  | 1   |         | R333     | VRE0034E330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R17      | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | R334     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R18, 19  | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | R335, 36 | ERG12SJ220  | M.RESISTOR 1/2W 22       | 2   |         |
| R20, 21  | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 2   |         | R337     | ERX12SJ4R7  | M.RESISTOR 1/2W 4.7      | 1   |         |
| R101, 02 | ERJ6GEYJ752 | M.RESISTOR CH 1/10W 7.5K | 2   |         | R419     | ERJ6GEY0301 | M.RESISTOR CH 1/10W 300  | 1   |         |
| R103     | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390  | 1   |         | R420     | ERJ6GEY0152 | M.RESISTOR CH 1/10W 1.5K | 1   |         |
| R104     | ERJ6GEYJ621 | M.RESISTOR CH 1/10W 620  | 1   |         | R421     | ERJ6GEY0332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R105     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R422     | ERJ6GEY0821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R106     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R423     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         |
| R108, 09 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | R424     | ERJ6GEY0562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R110     | VRE0034E472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R425     | ERJ6GEY0222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R111     | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R426     | ERJ6GEY0681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R112     | VRE0034E222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R427     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R113     | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R428, 29 | ERG12SJ220  | M.RESISTOR 1/2W 22       | 2   |         |
| R114-16  | VRE0034E472 | M.RESISTOR CH 1/10W 4.7K | 3   |         | R430     | ERX12SJ4R7  | M.RESISTOR 1/2W 4.7      | 1   |         |
| R118     | ERJ6GEY0223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R431     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R119     | ERJ6GEY0301 | M.RESISTOR CH 1/10W 300  | 1   |         | R432     | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R120     | ERJ6GEY0152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R433     | VRE0034E330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R121     | ERJ6GEY0332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R434     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R122     | ERJ6GEY0821 | M.RESISTOR CH 1/10W 820  | 1   |         | R435, 36 | ERG12SJ220  | M.RESISTOR 1/2W 22       | 2   |         |
| R123     | ERJ6GEY0563 | M.RESISTOR CH 1/10W 56K  | 1   |         | R437     | ERX12SJ4R7  | M.RESISTOR 1/2W 4.7      | 1   |         |
| R124     | ERJ6GEY0562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | R726     | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R125     | ERJ6GEY0222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R727     | ERJ6GEY0000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R126     | ERJ6GEY0681 | M.RESISTOR CH 1/10W 680  | 1   |         | R728, 29 | ERG12SJ220  | M.RESISTOR 1/2W 22       | 2   |         |
| R127     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R730     | ERX12SJ4R7  | M.RESISTOR 1/2W 4.7      | 1   |         |
| R128, 29 | ERG12SJ220  | M.RESISTOR 1/2W 22       | 2   |         | R731     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R130     | ERX12SJ4R7  | M.RESISTOR 1/2W 4.7      | 1   |         | R732     | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |
| R131     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R733     | VRE0034E330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R132     | VRE0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         | R734     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R133     | VRE0034E330 | M.RESISTOR CH 1/10W 33   | 1   |         | R735, 36 | ERG12SJ220  | M.RESISTOR 1/2W 22       | 2   |         |
| R134     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R737     | ERX12SJ4R7  | M.RESISTOR 1/2W 4.7      | 1   |         |
| R135, 36 | ERG12SJ220  | M.RESISTOR 1/2W 22       | 2   |         | R739     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R137     | ERX12SJ4R7  | M.RESISTOR 1/2W 4.7      | 1   |         | R741     | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R201, 02 | ERJ6GEYJ752 | M.RESISTOR CH 1/10W 7.5K | 2   |         | R801     | ERJ6GEY0000 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R203     | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390  | 1   |         | R802, 03 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |
| R204     | ERJ6GEYJ621 | M.RESISTOR CH 1/10W 620  | 1   |         | R809     | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |
| R205     | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         | R810     | ERJ6GEYJ473 | M.RESISTOR CH 1/10W 47K  | 1   |         |
| R206     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | R811-13  | ERJ6GEY0223 | M.RESISTOR CH 1/10W 22K  | 3   |         |
| R208, 09 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | R814, 15 | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2   |         |
| R210     | VRE0034E472 | M.RESISTOR CH 1/10W 4.7K | 1   |         | R816     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R211     | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R817     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R212     | VRE0034E222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R818     | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 1   |         |
| R213     | VRE0034E332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R819     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |
| R214-16  | VRE0034E472 | M.RESISTOR CH 1/10W 4.7K | 3   |         | R820     | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R218     | ERJ6GEY0223 | M.RESISTOR CH 1/10W 22K  | 1   |         | R821     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R219     | ERJ6GEY0301 | M.RESISTOR CH 1/10W 300  | 1   |         | R822, 23 | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 2   |         |
| R220     | ERJ6GEY0152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R824     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R221     | ERJ6GEY0332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R825     | ERJ6GEYJ362 | M.RESISTOR CH 1/10W 3.6K | 1   |         |
| R222     | ERJ6GEY0821 | M.RESISTOR CH 1/10W 820  | 1   |         | R826, 27 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |













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| Ref.No.  | Part No.    | Part Name & Description  | Pcs      | Remarks |
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|          |             |                          |          |         |
| J2-J5    | WJP3264030  | CONNECTOR (MALE)         | 4        |         |
|          |             |                          |          |         |
| LED1     | LN217RP     | LED                      | 1        |         |
| LED2     | EBG5504S    | LED                      | 1        |         |
| LED3     | VL10032     | LED                      | 1        |         |
| LED4-D9  | LN317GPU    | DIODE                    | 6        |         |
| LED10-19 | LN317GPU    | DIODE                    | 10       |         |
| LED20-23 | PY3668S     | LED                      | 4        |         |
| LED24-28 | EBG5504S    | LED                      | 5        |         |
| LED29-31 | VL10032     | LED                      | 3        |         |
|          |             |                          |          |         |
| Q1-Q2    | 2SB710      | TRANSISTOR               | 2 (Q,R)  |         |
| Q3       | UN2211      | TRANSISTOR-RESISTOR      | 1        |         |
| Q4-Q9    | 2SD601-R    | TRANSISTOR CHIP          | 6 (Q,R)  |         |
| Q10-Q2   | 2SD601-R    | TRANSISTOR CHIP          | 43 (Q,R) |         |
|          |             |                          |          |         |
|          |             | RESISTORS                |          |         |
| R1-R9    | BRJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 9        |         |
| R10-49   | BRJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 40       |         |
| R50-98   | BRJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 49       |         |
| R99      | BRJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1        |         |
| R100-44  | BRJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 45       |         |
| R145-69  | BRJ6GEYJ391 | M.RESISTOR CH 1/10W 390  | 25       |         |
| R170     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1        |         |
| R171     | BRJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1        |         |
| R172     | BRJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1        |         |
| R173     | BRJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1        |         |
| R174,75  | BRJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 2        |         |
|          |             |                          |          |         |
| SW1      | VSP0199     | SWITCH                   | 1        |         |
| SW2, W3  | EVQ0J104K   | SWITCH                   | 2        |         |
| SW4      | VSP0198     | SWITCH                   | 1        |         |
| SW5      | VSP0193     | SWITCH                   | 1        |         |
| SW6      | VSP0194     | SWITCH                   | 1        |         |
| SW7      | VSP0195     | SWITCH                   | 1        |         |
| SW8      | VSP0224     | SWITCH                   | 1        |         |
| SW9      | VSP0279     | SWITCH                   | 1        |         |
| SW10     | VSP0223     | SWITCH                   | 1        |         |
| SW11     | VSP0199     | SWITCH                   | 1        |         |
| SW12, 13 | VSP0473     | SWITCH                   | 2        |         |
| SW14, 15 | VSP0198     | SWITCH                   | 2        |         |
| SW16     | VSP0473     | SWITCH                   | 1        |         |
| SW17-19  | VSP0199     | SWITCH                   | 3        |         |
| SW20-23  | EVQ0J104K   | SWITCH                   | 4        |         |
| SW24, 25 | VSP0363     | SWITCH                   | 2        |         |
| SW26, 27 | EVQ0J104K   | SWITCH                   | 2        |         |
| SW28     | VSP0199     | SWITCH                   | 1        |         |
| SW29     | VSP0198     | SWITCH                   | 1        |         |
| SW30     | VSP0204     | SWITCH                   | 1        |         |
| SW31, 32 | VSP0198     | SWITCH                   | 2        |         |
| SW33     | VSP0239     | SWITCH                   | 1        |         |
| SW34     | VSP0225     | SWITCH                   | 1        |         |
| SW35-37  | EVQ0B11K    | SWITCH                   | 3        |         |
| SW38-40  | EVQ0B13K    | SWITCH                   | 3        |         |
| SW41, 42 | VSS0172     | SWITCH                   | 2        |         |
| SW44     | VSS0172     | SWITCH                   | 1        |         |
|          |             |                          |          |         |
|          |             | MISCELLANEOUS            |          |         |
|          | WGF0191     | LED HOLDER               | 1        |         |
|          | WQ0457      | LED SPACER               | 4        |         |
|          | WHD0061     | NYLON NUT                | 6        |         |
|          | WHD0473     | SPACER                   | 10       |         |

| Ref.No.   | Part No.    | Part Name & Description              | Pcs | Remarks            |
|-----------|-------------|--------------------------------------|-----|--------------------|
|           | WNE0829     | LED COVER                            | 1   |                    |
|           |             |                                      |     |                    |
|           | VEP86086A   | P.C. BOARD W/COMPONENT FRONT PANEL A |     | FOR AU-63H, AU-62H |
|           |             |                                      |     |                    |
|           |             | CAPACITORS                           |     |                    |
| C1-C5     | ECF1H1032F  | C.CAPACITOR 50V 0.01U                | 5   |                    |
| C6, C9    | ECF1H1032F  | C.CAPACITOR 50V 0.01U                | 2   |                    |
| C10       | ECF1H1032F  | C.CAPACITOR 50V 0.01U                | 1   |                    |
| C11       | ECFA1A0221  | E.CAPACITOR 10V 220U                 | 1   |                    |
|           |             |                                      |     |                    |
| D5-D7     | MA165VT     | DIODE                                | 3   |                    |
| D9        | MA165VT     | DIODE                                | 1   |                    |
| D22       | MA165VT     | DIODE                                | 1   |                    |
| D24       | MA165VT     | DIODE                                | 1   |                    |
| D26-32    | MA165VT     | DIODE                                | 7   |                    |
|           |             |                                      |     |                    |
| IC1       | MC74HC130AN | IC                                   | 1   | #IC                |
| IC2-C5    | MC74HC374AN | IC                                   | 4   | #IC                |
| IC8       | MC74HC154N  | IC                                   | 1   |                    |
| IC9       | MC74HC541N  | IC                                   | 1   |                    |
| IC10      | MC74HC541N  | IC                                   | 1   |                    |
| IC11-13   | AN6873N     | IC                                   | 3   |                    |
| IC15, 16  | M54514AP    | IC                                   | 2   |                    |
| IC18      | M54514AP    | IC                                   | 1   |                    |
|           |             |                                      |     |                    |
| J2        | VJP1233T    | CONNECTOR (MALE) 6P                  | 1   |                    |
| J3        | VJP1235T    | CONNECTOR (MALE) 8P                  | 1   |                    |
| J4, J5    | VJP3080     | CONNECTOR (MALE)                     | 2   |                    |
|           |             |                                      |     |                    |
| LED1-D9   | LN340GCPG   | LED                                  | 9   |                    |
| LED10-14  | LN340GCPG   | LED                                  | 5   |                    |
| LED15, 16 | AYDG5305S   | LED                                  | 2   |                    |
| LED17     | LN217RP     | LED                                  | 1   |                    |
| LED18     | EBG5504S    | LED                                  | 1   |                    |
| LED19-34  | LN317GPU    | DIODE                                | 16  |                    |
|           |             |                                      |     |                    |
| Q1-Q7     | 2SD636      | TRANSISTOR                           | 7   |                    |
| Q8        | 2SB641      | TRANSISTOR                           | 1   |                    |
| Q9        | DTL114EA    | TRANSISTOR RESISTOR                  | 1   |                    |
| Q10, 11   | 2SB643      | TRANSISTOR                           | 2   |                    |
| Q12       | 2SB641      | TRANSISTOR                           | 1   |                    |
|           |             |                                      |     |                    |
|           |             | RESISTORS                            |     |                    |
| R1-R9     | ERDS2TJ151  | C.RESISTOR 1/4W 150                  | 9   |                    |
| R10       | ERDS2TJ151  | C.RESISTOR 1/4W 150                  | 1   |                    |
| R11, 12   | ERDS2TJ221  | C.RESISTOR 1/4W 220                  | 2   |                    |
| R13-16    | ERDS2TJ151  | C.RESISTOR 1/4W 150                  | 4   |                    |
| R17       | ERDS2TJ682  | C.RESISTOR 1/4W 6.8K                 | 1   |                    |
| R18       | ERDS2TJ222  | C.RESISTOR 1/4W 2.2K                 | 1   |                    |
| R19       | ERDS2TJ682  | C.RESISTOR 1/4W 6.8K                 | 1   |                    |
| R20       | ERDS2TJ222  | C.RESISTOR 1/4W 2.2K                 | 1   |                    |
| R21       | ERDS2TJ682  | C.RESISTOR 1/4W 6.8K                 | 1   |                    |







| Ref. No. | Part No.     | Part Name & Description   | Pcs | Remarks            |
|----------|--------------|---------------------------|-----|--------------------|
| R7, R8   | ERJ6GEYJ103  | M. RESISTOR CH 1/10W 10K  | 2   |                    |
| R9       | ERJ6GEYJ153  | M. RESISTOR CH 1/10W 15K  | 1   |                    |
| R10-12   | ERJ6GEYJ223  | M. RESISTOR CH 1/10W 22K  | 3   |                    |
| R13      | ERD62TJ123   | C. RESISTOR 1/4W 12K      | 1   |                    |
| R14,15   | ERJ6GEYJ333  | M. RESISTOR CH 1/10W 33K  | 2   |                    |
| R16-19   | ERJ6GEYJ103  | M. RESISTOR CH 1/10W 10K  | 4   |                    |
| R20      | ERJ6GEYJ473  | M. RESISTOR CH 1/10W 47K  | 1   |                    |
| R21      | ERJ6GEYJ562  | M. RESISTOR CH 1/10W 5.6K | 1   |                    |
| R22      | ERJ6GEYJ105  | M. RESISTOR CH 1/10W 1M   | 1   |                    |
| R23      | ERJ6GEYJ472  | M. RESISTOR CH 1/10W 4.7K | 1   |                    |
| R24      | ERJ6GEYJ333  | M. RESISTOR CH 1/10W 33K  | 1   |                    |
| R25      | ERJ6GEYJ223  | M. RESISTOR CH 1/10W 22K  | 1   |                    |
| R26      | ERJ6GEYJ222  | M. RESISTOR CH 1/10W 2.2K | 1   |                    |
| R27      | ERJ6GEYJ103  | M. RESISTOR CH 1/10W 1K   | 1   |                    |
| R28      | ERJ6GEYJ333  | M. RESISTOR CH 1/10W 33K  | 1   |                    |
| R29,30   | ERJ6GEYJ104  | M. RESISTOR CH 1/10W 100K | 2   |                    |
| R31      | ERJ6GEYJ222  | M. RESISTOR CH 1/10W 2.2K | 1   |                    |
| R32      | ERJ6GEYJ223  | M. RESISTOR CH 1/10W 22K  | 1   |                    |
| R33      | ERJ6GEYJ472  | M. RESISTOR CH 1/10W 4.7K | 1   |                    |
| R34-36   | ERJ6GEYJ223  | M. RESISTOR CH 1/10W 22K  | 3   |                    |
| R37      | ERJ6GEYJ472  | M. RESISTOR CH 1/10W 4.7K | 1   |                    |
| R38      | ERJ6GEYJ223  | M. RESISTOR CH 1/10W 22K  | 1   |                    |
| R39      | ERJ6GEYJ102  | M. RESISTOR CH 1/10W 1K   | 1   |                    |
| R40-47   | ERJ6GEYJ223  | M. RESISTOR CH 1/10W 22K  | 8   |                    |
| R48-55   | ERJ6GEYJ103  | M. RESISTOR CH 1/10W 10K  | 8   |                    |
| R56-71   | ERJ6GEYJ223  | M. RESISTOR CH 1/10W 22K  | 16  |                    |
| R72-76   | ERJ6GEYJ103  | M. RESISTOR CH 1/10W 10K  | 5   |                    |
| R100     | ERJ6GEYJ181  | M. RESISTOR CH 1/10W 180  | 1   |                    |
| R101     | ERJ6GEYJ221  | M. RESISTOR CH 1/10W 220  | 1   |                    |
| R102     | ERJ6GEYJ332  | M. RESISTOR CH 1/10W 3.3K | 1   |                    |
| R103     | ERD62TJ103   | C. RESISTOR 1/4W 10K      | 1   |                    |
| R104     | ERJ6GEYJ680  | M. RESISTOR CH 1/10W 68   | 1   |                    |
| R105     | ERJ6GEYJ682  | M. RESISTOR CH 1/10W 6.8K | 1   |                    |
|          |              |                           |     |                    |
| SW1      | VSR0045      | SWITCH                    | 1   |                    |
| SW2      | VSS023702    | SWITCH                    | 1   |                    |
| SW4      | VSS023708    | SWITCH                    | 1   |                    |
|          |              |                           |     |                    |
| T100     | VI.T0684     | TRANSFORMER               | 1   |                    |
|          |              |                           |     |                    |
| TF100    | EYP2BN135    | FUSE                      | 1   |                    |
|          |              |                           |     |                    |
| TP1      | WJ0646       | TEST POINT                | 1   |                    |
|          |              |                           |     |                    |
| VR1      | EVM38GA00B14 | V. RESISTOR 10K           | 1   |                    |
| VR2      | EVM38GA00B54 | V. RESISTOR 50K           | 1   |                    |
|          |              |                           |     |                    |
| X1       | VSN0150      | CRYSTAL OSCILLATOR        | 1   |                    |
|          |              |                           |     |                    |
|          |              | MISCELLANEOUS             |     |                    |
|          | WPK2126      | SPACER                    | 4   |                    |
|          | XNG3CS       | NUT                       | 1   |                    |
|          | XWA3B        | WASHER                    | 1   |                    |
|          | XWG3         | WASHER                    | 1   |                    |
|          | XWNV3-K12S   | SCREW                     | 1   |                    |
|          |              |                           |     |                    |
|          | VEP86076F    | P. C. BOARD w/COMPONENT   |     | FOR AU-63H, AU-62H |
|          |              | FRONT PANEL B             |     |                    |

| Ref.No.  | Part No.    | Part Name & Description | Pcs | Remarks |
|----------|-------------|-------------------------|-----|---------|
| IC27     | MC14001BCP  | IC                      | 1   |         |
| IC28     | MC74HC00AN  | IC                      | 1   |         |
| IC75     | VJS2336A028 | CONNECTOR (FEMALE)      | 1   |         |
|          |             |                         |     |         |
| J1       | VJP1145     | CONNECTOR (MALE)        | 1   |         |
| J2       | VJP1246T    | CONNECTOR (MALE) 6P     | 1   |         |
| J3       | VJP1248T    | CONNECTOR (MALE) 8P     | 1   |         |
| J4,J5    | VJP3092     | CONNECTOR (MALE)        | 2   |         |
|          |             |                         |     |         |
| L1, L2   | VLPO017     | COIL                    | 2   |         |
| L3       | VT90035     | COIL                    | 1   |         |
|          |             |                         |     |         |
| P150     | VJP1976     | CONNECTOR (MALE)        | 1   |         |
|          |             |                         |     |         |
| Q1       | 2SD946A     | TRANSISTOR              | 1   |         |
| Q2, Q3   | 2SB641      | TRANSISTOR              | 2   |         |
| Q4       | 2SD1051     | TRANSISTOR              | 1   |         |
| Q5-Q7    | UN1214      | TRANSISTOR-RESISTOR     | 3   |         |
| Q8       | UN1212      | TRANSISTOR-RESISTOR     | 1   |         |
| Q9       | UN1214      | TRANSISTOR-RESISTOR     | 1   |         |
| Q10      | 2SD636      | TRANSISTOR              | 1   |         |
|          |             |                         |     |         |
|          |             | RESISTORS               |     |         |
| R1       | ERDS2TJ105  | C.RESISTOR 1/4W 1000K   | 1   |         |
| R2       | ERDS2TJ103  | C.RESISTOR 1/4W 10K     | 1   |         |
| R3       | ERDS2TJ222  | C.RESISTOR 1/4W 2.2K    | 1   |         |
| R4       | ERDS2TJ472  | C.RESISTOR 1/4W 4.7K    | 1   |         |
| R5       | ERDS2TJ223  | C.RESISTOR 1/4W 22K     | 1   |         |
| R6       | ERDS2TJ562  | C.RESISTOR 1/4W 5.6K    | 1   |         |
| R7       | ERDS2TJ102  | C.RESISTOR 1/4W 1K      | 1   |         |
| R8       | ERDS2TJ103  | C.RESISTOR 1/4W 10K     | 1   |         |
| R9       | ERDS2TJ153  | C.RESISTOR 1/4W 15K     | 1   |         |
| R10      | ERDS2TJ103  | C.RESISTOR 1/4W 10K     | 1   |         |
| R11      | ERDS2TJ472  | C.RESISTOR 1/4W 4.7K    | 1   |         |
| R12      | ERDS2TJ103  | C.RESISTOR 1/4W 10K     | 1   |         |
| R13      | ERDS2TJ153  | C.RESISTOR 1/4W 15K     | 1   |         |
| R14      | ERDS2TJ222  | C.RESISTOR 1/4W 2.2K    | 1   |         |
| R15      | ERDS2TJ330  | C.RESISTOR 1/4W 33      | 1   |         |
| R16      | ERDS2TJ223  | C.RESISTOR 1/4W 22K     | 1   |         |
| R17      | ERDS2TJ472  | C.RESISTOR 1/4W 4.7K    | 1   |         |
| R18      | ERDS2TJ104  | C.RESISTOR 1/4W 100K    | 1   |         |
| R19-21   | ERDS2TJ103  | C.RESISTOR 1/4W 10K     | 3   |         |
| R22      | ERDS2TJ473  | C.RESISTOR 1/4W 47K     | 1   |         |
| R23      | ERDS2TJ562  | C.RESISTOR 1/4W 5.6K    | 1   |         |
| R24      | ERDS2TJ103  | C.RESISTOR 1/4W 10K     | 1   |         |
| R25      | ERDS2TJ105  | C.RESISTOR 1/4W 1000K   | 1   |         |
| R26      | ERDS2TJ472  | C.RESISTOR 1/4W 4.7K    | 1   |         |
| R27      | ERDS2TJ333  | C.RESISTOR 1/4W 33K     | 1   |         |
| R28      | ERDS2TJ223  | C.RESISTOR 1/4W 22K     | 1   |         |
| R29      | ERDS2TJ222  | C.RESISTOR 1/4W 2.2K    | 1   |         |
| R30, 31  | ERDS2TJ102  | C.RESISTOR 1/4W 1K      | 2   |         |
|          |             |                         |     |         |
| RA1, A2  | EXBR88223J  | COMBI. R-R 22K          | 2   |         |
|          |             |                         |     |         |
| SW1      | VSR0045     | SWITCH                  | 1   |         |
| SW2      | VSS023708   | SWITCH                  | 1   |         |
|          |             |                         |     |         |
| TP3-P8   | WJRO400Y    | TEST POINT              | 6   |         |
| TPG1, G2 | WJRO400B    | TEST POINT              | 1   |         |

| Ref.No. | Part No.     | Part Name & Description             | Pcs | Remarks                   |
|---------|--------------|-------------------------------------|-----|---------------------------|
|         |              |                                     |     |                           |
| VR1     | VRV0109B103  | V.RESISTOR 10K                      | 1   |                           |
| VR2     | VRV0109B503  | V.RESISTOR 50K                      | 1   |                           |
|         |              |                                     |     |                           |
| X1      | VSND150      | CRYSTAL OSCILLATOR                  | 1   |                           |
|         |              |                                     |     |                           |
|         |              |                                     |     |                           |
|         | VEP80552A    | P.C. BOARD W/COMPONENT FRONT SW VR  |     | FOR AU-65H, AU-63H AU-62H |
|         |              |                                     |     |                           |
|         |              | CAPACITORS                          |     |                           |
| C1      | ECEA1CU101   | E.CAPACITOR 16V 100U                | 1   |                           |
| C2      | ECKFLH1032F  | C.CAPACITOR 50V 0.01U               | 1   |                           |
| C3      | ECEA1CU101   | E.CAPACITOR 16V 100U                | 1   |                           |
| C4      | ECKFLH1032F  | C.CAPACITOR 50V 0.01U               | 1   |                           |
|         |              |                                     |     |                           |
| CN190   | VJP3095      | CONNECTOR (MALE)                    | 1   |                           |
|         |              |                                     |     |                           |
|         |              |                                     |     |                           |
| L1, L2  | VLQE105S221K |                                     | 2   |                           |
|         |              |                                     |     |                           |
|         |              | RESISTORS                           |     |                           |
| R1-R9   | ERDS2TJ103   | C.RESISTOR 1/4W 10K                 | 9   |                           |
| R10-18  | ERDS2TJ103   | C.RESISTOR 1/4W 10K                 | 9   |                           |
|         |              |                                     |     |                           |
| SW10    | VSR0031      | VOLTAGE SELECT SWITCH               | 1   |                           |
| SW11    | ESD32184     | SWITCH                              | 1   |                           |
|         |              |                                     |     |                           |
| VR1, R2 | EVUF3A901B53 | V.RESISTOR 5K                       | 2   |                           |
| VR3-R8  | EVUF3AE20B53 | V.RESISTOR 5K                       | 6   |                           |
| VR9     | EVUF3A901B53 | V.RESISTOR 5K                       | 1   |                           |
|         |              |                                     |     |                           |
|         |              |                                     |     |                           |
|         | VEP80616A    | P.C. BOARD W/COMPONENT HEADPHONE VR |     | FOR AU-65H, AU-63H AU-62H |
|         |              |                                     |     |                           |
|         |              | CAPACITORS                          |     |                           |
| C1, C2  | ECUM1H102KBN | C.CAPACITOR CH 50V 1000P            | 2   |                           |
|         |              |                                     |     |                           |
|         |              |                                     |     |                           |
| L1-L3   | VLQ0163K1Z1  | COIL                                | 3   |                           |





| Ref.No.  | Part No.     | Part Name & Description    | Pcs | Remarks | Ref.No.  | Part No.     | Part Name & Description    | Pcs   | Remarks |
|----------|--------------|----------------------------|-----|---------|----------|--------------|----------------------------|-------|---------|
| C215     | ECEA1H0010   | E. CAPACITOR 50V 1U        | 1   |         | C818     | ECEA1H0010   | E. CAPACITOR 50V 1U        | 1     |         |
| C216     | ECUM1C102JA5 | P. CAPACITOR 16V 1000P     | 1   |         | C819     | ECUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1     |         |
| C217     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         | C820     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U   | 1     |         |
| C218     | ECUM1C152JA5 | P. CAPACITOR 16V 1500P     | 1   |         | C821     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P    | 1     |         |
| C219     | ECUM1H223KBN | C. CAPACITOR CH 50V 0.022U | 1   |         | C822     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P   | 1     |         |
| C220     | ECEA1H0010   | E. CAPACITOR 50V 1U        | 1   |         | C823     | ECUM1H120JCN | C. CAPACITOR CH 50V 12P    | 1     |         |
| C230     | ECUM1H271JCN | C. CAPACITOR CH 50V 270P   | 1   |         | C826     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P   | 1     |         |
| C280     | ECUM1H680JCN | C. CAPACITOR CH 50V 68P    | 1   |         | C827     | ECUM1H1000CN | C. CAPACITOR CH 50V 10P    | 1     |         |
| C301, 02 | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         | C828     | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 1     |         |
| C303     | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 1   |         | C829     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P    | 1     |         |
| C304     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |         | C830, 31 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 2     |         |
| C305     | ECUM1H223KBN | C. CAPACITOR CH 50V 0.022U | 1   |         | C901     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P   | 1     |         |
| C306     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |         | C902     | ECUM1H471JCN | C. CAPACITOR CH 50V 470P   | 1     |         |
| C307, 08 | ECUM1H223KBN | C. CAPACITOR CH 50V 0.022U | 2   |         | C951, 52 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 2     |         |
| C310     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |         | C953     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1     |         |
| C311     | ECUM1H151JCN | C. CAPACITOR CH 50V 150P   | 1   |         | C954, 55 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 2     |         |
| C314, 15 | ECUM1H681JCN | C. CAPACITOR CH 50V 680P   | 2   |         | C956     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1     |         |
| C321     | ECUM1H121JCN | C. CAPACITOR CH 50V 120P   | 1   |         |          |              |                            |       |         |
| C340     | ECUM1C102JA5 | P. CAPACITOR 16V 1000P     | 1   |         |          |              |                            |       |         |
| C341, 42 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 2   |         | CN800    | VJF1511T     | CONNECTOR (MALE)           | 1     |         |
| C343     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |         | CN801    | VJF1393T     | CONNECTOR (MALE)           | 13P   | 1       |
| C344, 45 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 2   |         | CN802    | VJF1231T     | CONNECTOR (MALE)           | 4P    | 1       |
| C346     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |          |              |                            |       |         |
| C347, 48 | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 2   |         |          |              |                            |       |         |
| C349     | ECEA1CU101   | E. CAPACITOR 16V 100U      | 1   |         |          |              |                            |       |         |
| C350, 51 | ECUM1H331JCN | C. CAPACITOR CH 50V 330P   | 2   |         | D1, D2   | MA151K       | DIODE                      | 2     |         |
| C352     | ECEA1H0010   | E. CAPACITOR 50V 1U        | 1   |         | D101     | MA151K       | DIODE                      | 1     |         |
| C403, 04 | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 2   |         | D102     | MA151WK      | DIODE                      | 1     |         |
| C405, 06 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 2   |         | D103     | RD2.0EB2     | DIODE                      | 1     |         |
| C451, 52 | ECEA1CU470   | E. CAPACITOR 16V 47U       | 2   |         | D201     | MA151K       | DIODE                      | 1     |         |
| C501     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         | D501     | MA151WA      | DIODE                      | 1     |         |
| C503     | ECUM1H101JCN | C. CAPACITOR CH 50V 100P   | 1   |         | D502     | MA151K       | DIODE                      | 1     |         |
| C506     | ECUM1H330JCN | C. CAPACITOR CH 50V 33P    | 1   |         |          |              |                            |       |         |
| C508-10  | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 3   |         |          |              |                            |       |         |
| C511     | ECUM1H221JCN | C. CAPACITOR CH 50V 220P   | 1   |         |          |              |                            |       |         |
| C512, 13 | ECUM1H470JCN | C. CAPACITOR CH 50V 47P    | 2   |         | FL2      | VLF1013      | FILTER                     | 1     |         |
| C551, 52 | ECEA1CU470   | E. CAPACITOR 16V 47U       | 2   |         | FL3      | VLF1009      | FILTER                     | 1     |         |
| C601     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U   | 1   |         | FL4      | VLF1008      | FILTER                     | 1     |         |
| C602, 03 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 2   |         | FL5, L6  | VLF1011      | FILTER                     | 2     |         |
| C604, 05 | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         |          |              |                            |       |         |
| C611     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U   | 1   |         |          |              |                            |       |         |
| C612, 13 | ECUM1H220JCN | C. CAPACITOR CH 50V 22P    | 2   |         |          |              |                            |       |         |
| C614     | ECUM1H180JCN | C. CAPACITOR CH 50V 18P    | 1   |         |          |              |                            |       |         |
| C700     | ECUM1H223KBN | C. CAPACITOR CH 50V 0.022U | 1   |         | IC1      | HA11008MP    | IC                         | 1     |         |
| C701-05  | ECEA1CU100   | E. CAPACITOR 16V 10U       | 5   |         | IC2      | HA11567MP    | IC                         | 1     |         |
| C706     | ECUM1H223KBN | C. CAPACITOR CH 50V 0.022U | 1   |         | IC3      | HA11535MP    | IC                         | 1     |         |
| C707     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         | IC4      | HD49410FS    | IC                         | 1     |         |
| C708, 09 | ECUM1E104KBN | C. CAPACITOR CH 25V 0.1U   | 2   |         | IC5      | HE534612P    | IC                         | 1     |         |
| C710     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         | IC6      | AN79L05      | IC                         | 1     |         |
| C711     | ECUM1H223KBN | C. CAPACITOR CH 50V 0.022U | 1   |         | IC8      | MC74HC02AF   | IC                         | 1     |         |
| C712-15  | ECUM1E104KBN | C. CAPACITOR CH 25V 0.1U   | 4   |         | IC9      | AN79L05      | IC                         | 1     |         |
| C716     | ECUM1H223KBN | C. CAPACITOR CH 50V 0.022U | 1   |         | IC10     | AN78L05      | IC                         | 1     |         |
| C718     | ECUM1E104KBN | C. CAPACITOR CH 25V 0.1U   | 1   |         | IC11     | AN78M05P     | IC                         | 1     |         |
| C719     | ECUM1H223KBN | C. CAPACITOR CH 50V 0.022U | 1   |         | IC12, 13 | AN78M05      | IC                         | 2     |         |
| C720     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         | IC501    | MM74HC221M   | IC                         | 1     |         |
| C722     | ECUM1H223KBN | C. CAPACITOR CH 50V 0.022U | 1   |         | IC503    | MC74HC00AF   | IC                         | 1     |         |
| C725     | ECUM1H103KBN | C. CAPACITOR CH 50V 0.01U  | 1   |         | IC504    | MC74HC04AF   | IC                         | 1     |         |
| C726     | ECUM1E104KBN | C. CAPACITOR CH 25V 0.1U   | 1   |         | IC505    | MC74HC157AF  | IC                         | 1     |         |
| C790     | ECUM1H560JCN | C. CAPACITOR CH 50V 56P    | 1   |         | IC801    | MS1272FP     | IC                         | 1     |         |
| C801     | ECEA1H0010   | E. CAPACITOR 50V 1U        | 1   |         | IC951    | AN78L05      | IC                         | 1     |         |
| C802     | ECUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1   |         | IC952    | AN79L05      | IC                         | 1     |         |
| C803     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         |          |              |                            |       |         |
| C804     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |         |          |              |                            |       |         |
| C805, 06 | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U   | 2   |         |          |              |                            |       |         |
| C807     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |         | L1       | VLQEL05S101J | COIL                       | 100UH | 1       |
| C808     | ECUM1H270JCN | C. CAPACITOR CH 50V 27P    | 1   |         | L9       | VLQEL05S101J | COIL                       | 100UH | 1       |
| C809     | ECEA1H0010   | E. CAPACITOR 50V 1U        | 1   |         | L12      | VLQ0578      | COIL                       |       | 1       |
| C810     | ECUM1E473KBN | C. CAPACITOR CH 25V 0.047U | 1   |         | L13      | VLQ0577      | COIL                       |       | 1       |
| C811     | ECEA1CU100   | E. CAPACITOR 16V 10U       | 1   |         | L201     | VLQEL05S101J | COIL                       | 100UH | 1       |
| C812     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |         | L451, 52 | VLQEL05S101J | COIL                       | 100UH | 2       |
| C813     | ECUM1C104KBN | C. CAPACITOR CH 16V 0.1U   | 1   |         | L551, 52 | VLQEL05S101J | COIL                       | 100UH | 2       |
| C814     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |         | L601, 02 | VLQEL05S470F | COIL                       | 47UH  | 2       |
| C815     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         | L700     | VLQEL05S101J | COIL                       | 100UH | 1       |
| C816     | ECUM1E1042FN | C. CAPACITOR CH 25V 0.1U   | 1   |         | L790     | VLQEL05S150J | COIL                       | 15UH  | 1       |
| C817     | ECEA1CU470   | E. CAPACITOR 16V 47U       | 1   |         | L801     | VLQEL05S101J | COIL                       | 100UH | 1       |

| Ref.No. | Part No.     | Part Name & Description  | Pcs     | Remarks |
|---------|--------------|--------------------------|---------|---------|
| L802    | VLQEL05S150J | COIL 150H                | 1       |         |
| L803    | VLQEL05S5R6J | COIL 5.6H                | 1       |         |
| L804    | VLQEL05S6R8J | COIL 6.8H                | 1       |         |
| L901    | VLQEL05S180J | COIL 180H                | 1       |         |
| L902    | VLQEL05S560J | COIL 560H                | 1       |         |
|         |              |                          |         |         |
| Q1      | 2SA1022-B    | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q2      | 2SC2404-C    | TRANSISTOR CHIP          | 1 (C,D) |         |
| Q3      | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q4      | 2SC2404-C    | TRANSISTOR CHIP          | 1 (C,D) |         |
| Q5      | 2SA1022-B    | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q6      | 2SC2295-B    | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q7      | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q8      | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q100    | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q101    | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q102    | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q105    | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q106    | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q107    | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q108    | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q150,51 | 2SB709-R     | TRANSISTOR CHIP          | 2 (Q,R) |         |
| Q200    | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q203    | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q206    | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q207    | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q208,09 | 2SD601-R     | TRANSISTOR CHIP          | 2 (Q,R) |         |
| Q404,05 | 2SD601-R     | TRANSISTOR CHIP          | 2 (Q,R) |         |
| Q406,07 | 2SC2295-B    | TRANSISTOR CHIP          | 2 (B,C) |         |
| Q408    | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q501,02 | UN2213       | TRANSISTOR-RESISTOR      | 2       |         |
| Q601,02 | 2SD601-R     | TRANSISTOR CHIP          | 2 (Q,R) |         |
| Q603    | 2SC2295-B    | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q604    | 2SB709-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q801    | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q802    | 2SC2295-B    | TRANSISTOR CHIP          | 1 (B,C) |         |
| Q803    | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q805    | 2SD601-R     | TRANSISTOR CHIP          | 1 (Q,R) |         |
| Q901-03 | 2SD601-R     | TRANSISTOR CHIP          | 3 (Q,R) |         |
|         |              |                          |         |         |
|         |              | RESISTORS                |         |         |
| R6,R7   | ERJ6GEYJ684  | M.RESISTOR CH 1/10W 680K | 1       |         |
| R8      | ERJ6GEYJ123  | M.RESISTOR CH 1/10W 12K  | 1       |         |
| R12     | ERJ6GEYJ151  | M.RESISTOR CH 1/10W 150  | 1       |         |
| R16     | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R18     | ERJ6GEYJ104  | M.RESISTOR CH 1/10W 100K | 1       |         |
| R57     | ERJ6GEYJ103  | M.RESISTOR CH 1/10W 10K  | 1       |         |
| R100    | ERJ6GEYOR00  | M.RESISTOR CH 1/10W      | 1       |         |
| R101    | ERJ6GEYJ561  | M.RESISTOR CH 1/10W 560  | 1       |         |
| R102    | ERJ6GEYJ471  | M.RESISTOR CH 1/10W 470  | 1       |         |
| R103,04 | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R105    | ERJ6GEYJ473  | M.RESISTOR CH 1/10W 47K  | 1       |         |
| R106    | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 1       |         |
| R107,08 | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 2       |         |
| R110    | ERJ6GEYJ105  | M.RESISTOR CH 1/10W 1M   | 1       |         |
| R111    | ERJ6GEYJ331  | M.RESISTOR CH 1/10W 330  | 1       |         |
| R112    | ERJ6GEYJ681  | M.RESISTOR CH 1/10W 680  | 1       |         |
| R113    | ERJ6GEYJ272  | M.RESISTOR CH 1/10W 2.7K | 1       |         |
| R114    | ERJ6GEYJ391  | M.RESISTOR CH 1/10W 390  | 1       |         |
| R115    | ERJ6GEYJ182  | M.RESISTOR CH 1/10W 1.8K | 1       |         |
| R116    | ERJ6GEYJ822  | M.RESISTOR CH 1/10W 8.2K | 1       |         |
| R117    | ERJ6GEYJ272  | M.RESISTOR CH 1/10W 2.7K | 1       |         |
| R118    | ERJ6GEYJ221  | M.RESISTOR CH 1/10W 220  | 1       |         |
| R119    | ERJ6GEYJ330  | M.RESISTOR CH 1/10W 33   | 1       |         |
| R120    | ERJ6GEYJ333  | M.RESISTOR CH 1/10W 33K  | 1       |         |
| R125,26 | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 2       |         |
| R129    | ERJ6GEYJ393  | M.RESISTOR CH 1/10W 39K  | 1       |         |
| R130    | ERJ6GEYJ184  | M.RESISTOR CH 1/10W 180K | 1       |         |
| R131,32 | ERJ6GEYJ562  | M.RESISTOR CH 1/10W 5.6K | 2       |         |
| R133    | ERJ6GEYJ102  | M.RESISTOR CH 1/10W 1K   | 1       |         |
| R136    | ERJ6GEYJ223  | M.RESISTOR CH 1/10W 22K  | 1       |         |

| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks |
|---------|-------------|--------------------------|-----|---------|
| R137    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R138,39 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R140    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R144    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R147    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R150    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R151,52 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R153    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R154,55 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R160    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R180    | ERJ6GEYJ124 | M.RESISTOR CH 1/10W 120K | 1   |         |
| R181    | ERJ6GEYJ121 |                          | 1   |         |
| R182    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R183    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R200    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R201    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R202    | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33   | 1   |         |
| R204,05 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R207    | ERJ6GEYJ331 | M.RESISTOR CH 1/10W 330  | 1   |         |
| R208    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R209    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R217    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         |
| R218    | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K | 1   |         |
| R219    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         |
| R220    | ERJ6GEYJ182 | M.RESISTOR CH 1/10W 1.8K | 1   |         |
| R221    | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390  | 1   |         |
| R222    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R229,30 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R231    | ERJ6GEYJ393 | M.RESISTOR CH 1/10W 39K  | 1   |         |
| R232    | ERJ6GEYJ184 | M.RESISTOR CH 1/10W 180K | 1   |         |
| R233    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R234    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R235    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |
| R236    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R237,38 | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 2   |         |
| R239,40 | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 2   |         |
| R241    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R245    | ERJ6GEYJ223 | M.RESISTOR CH 1/10W 22K  | 1   |         |
| R246    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R250    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R251    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R252    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R260    | ERJ6GEYJ155 | M.RESISTOR CH 1/10W 1M   | 1   |         |
| R282    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         |
| R283    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |
| R301    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R302    | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         |
| R303,04 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R305    | ERJ6GEYJ224 | M.RESISTOR CH 1/10W 220K | 1   |         |
| R306    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |
| R307,08 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R309,10 | ERJ6GEYJ101 | M.RESISTOR CH 1/10W 100  | 2   |         |
| R311    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |
| R312    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |
| R313    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R314-16 | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 3   |         |
| R317    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R318,19 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |
| R320    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R321    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R322-24 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 3   |         |
| R328    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         |
| R329    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |
| R330-32 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 3   |         |
| R333    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R335    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R337    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R339    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 1   |         |
| R340    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |
| R342    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |
| R343    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R345    | ERJ6GEYOR00 | M.RESISTOR CH 1/10W      | 1   |         |
| R354-57 | ERJ6GEYOR00 | M.RESISTOR CH 1/10W 0    | 4   |         |
| R358    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |
| R359    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         |



| Ref.No. | Part No.    | Part Name & Description  | Pcs | Remarks | Ref.No.  | Part No.    | Part Name & Description             | Pcs | Remarks                    |
|---------|-------------|--------------------------|-----|---------|----------|-------------|-------------------------------------|-----|----------------------------|
| R360.61 | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390  | 2   |         | R831     | ERJ6GEYJ151 | M.RESISTOR CH 1/10W 150             | 1   |                            |
| R362    | ERJ6GEYJ222 | M.RESISTOR CH 1/10W 2.2K | 1   |         | R832     | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820             | 1   |                            |
| R363    | ERJ6GEYJ392 | M.RESISTOR CH 1/10W 3.9K | 1   |         | R833     | ERJ6GEYJ152 | M.RESISTOR CH 1/10W 1.5K            | 1   |                            |
| R407    | VRB0034E681 | M.RESISTOR CH 1/10W 680  | 1   |         | R834     | ERJ6GEYJ330 | M.RESISTOR CH 1/10W 33              | 1   |                            |
| R409    | VRB0034E181 | M.RESISTOR CH 1/10W 180  | 1   |         | R901     | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470             | 1   |                            |
| R410    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 1   |         | R902     | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220             | 1   |                            |
| R411    | VRB0034E152 | M.RESISTOR CH 1/10W 1.5K | 1   |         | R903     | ERJ6GEYJ271 | M.RESISTOR CH 1/10W 270             | 1   |                            |
| R412    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R904     | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47              | 1   |                            |
| R413    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R905     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K            | 1   |                            |
| R414    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | R906     | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390             | 1   |                            |
| R417    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | R907     | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820             | 1   |                            |
| R418    | VRB0034E681 | M.RESISTOR CH 1/10W 680  | 1   |         | R908     | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K            | 1   |                            |
| R419    | VRB0034E221 | M.RESISTOR CH 1/10W 220  | 1   |         | R909     | ERJ6GEYJ822 | M.RESISTOR CH 1/10W 8.2K            | 1   |                            |
| R420    | ERJ6GEYJ150 | M.RESISTOR CH 1/10W 15   | 1   |         | R910     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K            | 1   |                            |
| R421    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | R911     | ERJ6GEYJ000 | M.RESISTOR CH 1/10W                 | 1   |                            |
| R422.23 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R912     | VRB0034E471 | M.RESISTOR CH 1/10W 470             | 1   |                            |
| R424    | VRB0034E471 | M.RESISTOR CH 1/10W 470  | 1   |         | R913     | VRB0034E682 | M.RESISTOR CH 1/10W 6.8K            | 1   |                            |
| R425.26 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         | R914     | VRB0034E622 | M.RESISTOR CH 1/10W 8.2K            | 1   |                            |
| R427    | VRB0034E221 | M.RESISTOR CH 1/10W 220  | 1   |         | R915     | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K            | 1   |                            |
| R428    | VRB0034E471 | M.RESISTOR CH 1/10W 470  | 1   |         |          |             |                                     |     |                            |
| R429    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |          |             |                                     |     |                            |
| R501    | ERJ6GEYJ273 | M.RESISTOR CH 1/10W 27K  | 1   |         |          |             |                                     |     |                            |
| R502    | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 1   |         | TP3      | VJR0548     | TEST POINT                          | 1   |                            |
| R503    | ERJ6GEYJ105 | M.RESISTOR CH 1/10W 1M   | 1   |         | TP10.11  | VJR0548     | TEST POINT                          | 2   |                            |
| R504    | ERJ6GEYJ562 | M.RESISTOR CH 1/10W 5.6K | 1   |         | TP39     | VJR0548     | TEST POINT                          | 1   |                            |
| R505.06 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         | TP501    | VJR0548     | TEST POINT                          | 1   |                            |
| R507.08 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         | TP801    | VJR0548     | TEST POINT                          | 1   |                            |
| R509    | ERJ6GEYJ000 | M.RESISTOR CH 1/10W      | 0   |         |          |             |                                     |     |                            |
| R511.12 | ERJ6GEYJ104 | M.RESISTOR CH 1/10W 100K | 2   |         |          |             |                                     |     |                            |
| R513.14 | ERJ6GEYJ391 | M.RESISTOR CH 1/10W 390  | 2   |         |          |             |                                     |     |                            |
| R601    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VC501    | VCV0042     | TRIMMER 50V 25P                     | 1   |                            |
| R602    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         |          |             |                                     |     |                            |
| R604    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         |          |             |                                     |     |                            |
| R605    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |          |             |                                     |     |                            |
| R606    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | VR2      | VRV0109B103 | V.RESISTOR 10K                      | 1   |                            |
| R611    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         | VR3      | VRV0109B202 | V.RESISTOR 2K                       | 1   |                            |
| R612    | ERJ6GEYJ561 | M.RESISTOR CH 1/10W 560  | 1   |         | VR7      | VRV0109B502 | V.RESISTOR 5K                       | 1   |                            |
| R614    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | VR8.11   | VRV0109B501 | V.RESISTOR 500                      | 2   |                            |
| R615    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         | VR801.02 | VRV0109B102 | V.RESISTOR 1K                       | 2   |                            |
| R616    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | VR901    | VRV0109B202 | V.RESISTOR 2K                       | 1   |                            |
| R617.18 | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 2   |         |          |             |                                     |     |                            |
| R619    | VRB0034E221 | M.RESISTOR CH 1/10W 220  | 1   |         |          |             |                                     |     |                            |
| R620    | ERJ6GEYJ821 | M.RESISTOR CH 1/10W 820  | 1   |         |          |             |                                     |     |                            |
| R621    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |          |             |                                     |     |                            |
| R622    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         | X1       | VSX0544     | CRYSTAL OSCILLATOR                  | 1   |                            |
| R704    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         | X2       | VSX0542     | CRYSTAL OSCILLATOR                  | 1   |                            |
| R705    | ERJ6GEYJ183 | M.RESISTOR CH 1/10W 18K  | 1   |         | X3       | VSX0544     | CRYSTAL OSCILLATOR                  | 1   |                            |
| R709    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         | X4       | VSX0542     | CRYSTAL OSCILLATOR                  | 1   |                            |
| R710    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         | X501     | VSX0126     | CRYSTAL OSCILLATOR                  | 1   |                            |
| R711    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |          |             |                                     |     |                            |
| R712    | ERJ6GEYJ682 | M.RESISTOR CH 1/10W 6.8K | 1   |         |          |             |                                     |     |                            |
| R713    | ERJ6GEYJ153 | M.RESISTOR CH 1/10W 15K  | 1   |         |          |             | MISCELLANEOUS                       |     |                            |
| R714    | ERJ6GEYJ333 | M.RESISTOR CH 1/10W 33K  | 1   |         |          | VMP2738     | HOLDER ANGLE                        | 1   |                            |
| R720.21 | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 2   |         |          | VSC2489     | SHIELD CASE                         | 1   |                            |
| R750    | ERJ6GEYJ334 | M.RESISTOR CH 1/10W 330K | 1   |         |          | VSC2490     | SHIELD CASE                         | 1   |                            |
| R802    | VRB0034E273 | M.RESISTOR CH 1/10W 27K  | 1   |         |          | XTV3+6F     | SCREW                               | 2   |                            |
| R803    | VRB0034E183 | M.RESISTOR CH 1/10W 18K  | 1   |         |          |             |                                     |     |                            |
| R804    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |          |             |                                     |     |                            |
| R805    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                                     |     |                            |
| R806    | ERJ6GEYJ472 | M.RESISTOR CH 1/10W 4.7K | 1   |         |          |             |                                     |     |                            |
| R807    | VRB0034E183 | M.RESISTOR CH 1/10W 18K  | 1   |         |          |             |                                     |     |                            |
| R808    | VRB0034E273 | M.RESISTOR CH 1/10W 27K  | 1   |         |          |             |                                     |     |                            |
| R809    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |          | VEP81058A   | P.C. BOARD w/COMPONENT POWER FILTER |     | FOR AU-65H, AU-6.3H AU-62H |
| R810    | ERJ6GEYJ103 | M.RESISTOR CH 1/10W 10K  | 1   |         |          |             |                                     |     |                            |
| R811    | VRB0034E301 | M.RESISTOR CH 1/10W 300  | 1   |         |          |             |                                     |     |                            |
| R812    | VRB0034E151 | M.RESISTOR CH 1/10W 150  | 1   |         |          |             |                                     |     |                            |
| R813    | VRB0034E561 | M.RESISTOR CH 1/10W 560  | 1   |         |          |             |                                     |     |                            |
| R814    | ERJ6GEYJ470 | M.RESISTOR CH 1/10W 47   | 1   |         |          |             |                                     |     |                            |
| R815    | ERJ6GEYJ102 | M.RESISTOR CH 1/10W 1K   | 1   |         |          |             |                                     |     |                            |
| R816    | ERJ6GEYJ122 | M.RESISTOR CH 1/10W 1.2K | 1   |         |          |             |                                     |     |                            |
| R818    | ERJ6GEYJ332 | M.RESISTOR CH 1/10W 3.3K | 1   |         |          |             | CAPACITORS                          |     |                            |
| R819    | ERJ6GEYJ681 | M.RESISTOR CH 1/10W 680  | 1   |         | C2       | BOQU2A224MN | F.CAPACITOR 250V 0.22U              | 1   |                            |
| R820    | ERJ6GEYJ221 | M.RESISTOR CH 1/10W 220  | 1   |         | C3-C6    | VCR00411    | C.CAPACITOR                         | 4   |                            |
| R821    | ERJ6GEYJ471 | M.RESISTOR CH 1/10W 470  | 1   |         | C7       | BOQU2A224MN | F.CAPACITOR 250V 0.22U              | 1   |                            |
| R822    | VRB0034E181 | M.RESISTOR CH 1/10W 180  | 1   |         |          |             |                                     |     |                            |



| Ref.No.    | Part No.     | Part Name & Description                     | Pcs | Remarks                      |
|------------|--------------|---|-----|------------------------------|
| F1         | XBA2C631B0   | FUSE 5.3A 250V                              | 1   |                              |
| L1         | VLFO930      | COIL  | 1   |                              |
| POWER20-22 | VJP2639      | CONNECTOR (MALE)                            | 3   |                              |
| R1         | ERG2S104     | RESISTORS<br>H.RESISTOR 2W 100K             | 1   |                              |
|            |              | MISCELLANEOUS                               |     |                              |
|            | VJF0318      | FUSE HOLDER                                 | 1   |                              |
|            | VM20730      | CAPACITANCE COVER                           | 4   |                              |
|            | VM21305      | CAPACITANCE COVER                           | 2   |                              |
|            | VYK3637      | P.C. BOARD W/COMPONENT<br>POWER SUPPLY UNIT |     | FOR AU-65H, AU-63H<br>AU-62H |
|            |              | CAPACITORS                                  |     |                              |
| C1         | ECQU2A224MT  | P. CAPACITOR AC250V 0.22U                   | 1   |                              |
| C2         | ECQU2A224MT  | P. CAPACITOR AC250V 0.22U                   | 1   |                              |
| C3         | ECQB1H473KF  | P. CAPACITOR 50V 0.047U                     | 1   |                              |
| C4, C5     | ECQV1J105JZ  | P. CAPACITOR 1U                             | 2   |                              |
| C6, C7     | ECQR8222NE   | C. CAPACITOR AC400V 2200P                   | 2   |                              |
| C8, C9     | ECOS2EA681EA | E. CAPACITOR 250V 680U                      | 2   |                              |
| C10        | ECQE6104KF   | P. CAPACITOR 630V 0.1UF                     | 1   |                              |
| C11        | ECQB1H333KF  | P. CAPACITOR 50V 0.033U                     | 1   |                              |
| C12        | ECQD3A471KBP | C. CAPACITOR 1KV 470U                       | 1   |                              |
| C13        | ECQV1J105JZ  | P. CAPACITOR 1U                             | 1   |                              |
| C14        | ECBA1VFE101  | E. CAPACITOR 35V 100U                       | 1   |                              |
| C15        | ECQD3A471KBP | C. CAPACITOR 1KV 470U                       | 1   |                              |
| C16        | ECQV1J105JZ  | P. CAPACITOR 63V 1UF                        | 1   |                              |
| C17        | ECQD3A101KBP | C. CAPACITOR 1KV 100U                       | 1   |                              |
| C18, 19    | ECQR8222NE   | C. CAPACITOR AC400V 2200P                   | 2   |                              |
| C20        | ECQB1H683KF  | P. CAPACITOR 50V 0.068U                     | 1   |                              |
| C51        | ECQD3A102KBP | C. CAPACITOR 1KV 1000P                      | 1   |                              |
| C52        | ECQD3A681KBP | C. CAPACITOR 1KV 680U                       | 1   |                              |
| C53        | ECBA1VFE102  | E. CAPACITOR 35V 1000U                      | 1   |                              |
| C54        | ECQB1H152KF  | P. CAPACITOR 50V 1500P                      | 1   |                              |
| C55        | ECQB1H102KF  | P. CAPACITOR 50V 1000P                      | 1   |                              |
| C56        | ECQD3A102KBP | C. CAPACITOR 1KV 1000P                      | 1   |                              |
| C57        | ECQD3A681KBP | C. CAPACITOR 1KV 680U                       | 1   |                              |
| C58        | ECBA1APD102L | E. CAPACITOR 10V 1000U                      | 1   |                              |
| C59        | ECBA1AFE152  | E. CAPACITOR 10V 1500U                      | 1   |                              |
| C60        | ECBA1HFE331  | E. CAPACITOR 50V 330U                       | 1   |                              |
| C61        | ECBA1EFE221  | E. CAPACITOR 25V 220U                       | 1   |                              |
| C62, 63    | ECQB1H102KF  | P. CAPACITOR 50V 1000P                      | 1   |                              |
| C64, 65    | ECQD3A681KBP | C. CAPACITOR 1KV 680U                       | 2   |                              |
| C66        | ECBA1VFE102  | E. CAPACITOR 25V 1000U                      | 1   |                              |
| C67        | ECQB1H102KF  | P. CAPACITOR 50V 1000P                      | 1   |                              |
| C68, 69    | ECQD3A681KBP | C. CAPACITOR 1KV 680U                       | 2   |                              |
| C70        | ECBA1EFE681  | E. CAPACITOR 25V 680U                       | 1   |                              |
| C71        | ECBA1EP471   | E. CAPACITOR 25V 470U                       | 1   |                              |
| C72        | ECQB1H102KF  | P. CAPACITOR 50V 1000P                      | 1   |                              |
| C89        | ECBA1HFE270  | E. CAPACITOR 50V 27U                        | 1   |                              |
| C90        | ECALKEF100   | E. CAPACITOR 25V 10U                        | 1   |                              |

| Ref.No.  | Part No.    | Part Name & Description | Pcs | Remarks |
|----------|-------------|-------------------------|-----|---------|
| C91      | ECBA1EP471  | E. CAPACITOR 25V 470U   | 1   |         |
| C92      | ECQB1H222KF | P. CAPACITOR 50V 2200P  | 1   |         |
| C93      | ECQB1H102KF | P. CAPACITOR 50V 1000P  | 1   |         |
| C94      | ECQB1H473KF | P. CAPACITOR 50V 0.047U | 1   |         |
| C95      | ECQV1H224JZ | P. CAPACITOR 50V 0.22U  | 1   |         |
| C96      | ECQB1H103KF | P. CAPACITOR 50V 0.01U  | 1   |         |
| CP1      | VJP2824B004 | CONNECTOR (MALE)        | 1   |         |
| CP2      | VJP3015     | CONNECTOR (MALE)        | 1   |         |
| CP51     | VJP2824B006 | CONNECTOR (MALE)        | 1   |         |
| CP52     | VJP2824B007 | CONNECTOR (MALE)        | 1   |         |
| CP53     | VJP2824B008 | CONNECTOR (MALE)        | 1   |         |
| CP54     | VJP3016     | CONNECTOR (MALE)        | 1   |         |
| CR1      | AC09FGM     | DIODE                   | 1   |         |
| CR2      | ERB44-06    | DIODE                   | 1   |         |
| CR3      | RD75EB      | ZENER                   | 1   |         |
| CR4, R5  | RD68EB      | ZENER                   | 2   |         |
| CR6      | RD12EB2     | DIODE                   | 1   |         |
| CR7      | RBV606      | DIODE                   | 1   |         |
| CR8, R9  | 1SS118      | DIODE                   | 2   |         |
| CR10     | AC09FGM     | DIODE                   | 1   |         |
| CR11     | N413        | DIODE                   | 1   |         |
| CR12     | 11DF2       | DIODE                   | 1   |         |
| CR13     | ERB37-10    | DIODE                   | 1   |         |
| CR14     | 11DF2       | DIODE                   | 1   |         |
| CR15, 16 | ERB37-10    | DIODE                   | 2   |         |
| CR51     | ESAC928-03  | DIODE                   | 1   |         |
| CR52     | CTB-34      | DIODE                   | 1   |         |
| CR53, 54 | 1SS120      | DIODE                   | 3   |         |
| CR55     | 11DF2       | DIODE                   | 1   |         |
| CR56     | RD13EB2     | ZENER                   | 1   |         |
| CR57     | 1SS120      | DIODE                   | 1   |         |
| CR58     | RD9.1ESB2   | ZENER                   | 1   |         |
| CR59     | RD39ESB2    | ZENER                   | 1   |         |
| F1       | EYP28V098   | FUSE                    | 1   |         |
| L1       | VLFO930     | COIL                    | 1   |         |
| Q1       | 2SA1015Y    | TRANSISTOR              | 1   |         |
| Q2       | 2SA5621MY   | TRANSISTOR              | 1   |         |
| Q3       | 2SA1015Y    | TRANSISTOR              | 1   |         |
| Q53      | 2SC2655Y    | TRANSISTOR              | 1   |         |
| Q54      | 2SC1815Y    | TRANSISTOR              | 1   |         |
| Q56      | 2SC1815Y    | TRANSISTOR              | 1   |         |
| Q57      | 2SC2655Y    | TRANSISTOR              | 1   |         |
| Q58      | 2SA1015Y    | TRANSISTOR              | 1   |         |
| Q59      | 2SC1815Y    | TRANSISTOR              | 1   |         |
| Q60      | 2SC1815Y    | TRANSISTOR              | 1   |         |
| R1       | ERF5RJ220   | M. RESISTOR 5W 22       | 1   |         |
| R2       | ERDS2FJ102  | C. RESISTOR 1/4W 1K     | 1   |         |
| R3       | ERDS2FJ104  | C. RESISTOR 1/4W 100K   | 1   |         |
| R4       | ERDS2FJ473  | C. RESISTOR 1/4W 47K    | 1   |         |
| R5       | ERDS2FJ472  | C. RESISTOR 1/4W 4.7K   | 1   |         |
| R6       | ERD25FJ124  | C. RESISTOR 1/4W 120K   | 1   |         |
| R7       | ERDS2FJ105  | C. RESISTOR 1/4W 1M     | 1   |         |
| R8       | ERDS2FJ103  | C. RESISTOR 1/4W 10K    | 1   |         |
| R9       | ERDS2FJ473  | C. RESISTOR 1/4W 47K    | 1   |         |
| R10      | ERDS2FJ102  | C. RESISTOR 1/4W 1K     | 1   |         |
| R11      | ERG2S1120   | M. RESISTOR 2W 12       | 1   |         |



| Ref.No.  | Part No.     | Part Name & Description   | Pcs | Remarks |
|----------|--------------|---------------------------|-----|---------|
| C42      | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C43      | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C44      | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C45      | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C46, 47  | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C48      | ECUMLE220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C50      | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C51      | ECUMLE220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C53      | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C54      | ECUMLE220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C56      | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C57      | ECUMLE220JCN | C. CAPACITOR CH 50V 22P   | 1   |         |
| C59      | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C60      | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C61, 62  | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C63      | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C64      | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C65, 66  | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C67      | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C68      | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C69, 70  | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C71      | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C72      | ECEA1AU101   | E. CAPACITOR 10V 100U     | 1   |         |
| C73, 74  | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| C75-78   | ECEA1CU470   | E. CAPACITOR 16V 47U      | 4   |         |
| C79      | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C80      | ECEA1EU470   | E. CAPACITOR 25V 47U      | 1   |         |
| C81-86   | BCCD2H330JC  | C. CAPACITOR 500V 33P     | 1   |         |
| C87      | ECEA1EU470   | E. CAPACITOR 25V 47U      | 1   |         |
| C88      | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C201     | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C202     | ECEA1EU100   | E. CAPACITOR 25V 10U      | 1   |         |
| C203     | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C204     | ECSP0JE106   | T. CAPACITOR 6.3V 10U     | 1   |         |
| C205     | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C206     | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C207     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C208, 09 | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C210     | ECEA1EU100   | E. CAPACITOR 25V 10U      | 1   |         |
| C211     | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C212     | ECSP0JE106   | T. CAPACITOR 6.3V 10U     | 1   |         |
| C213     | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C214     | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C215     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C216, 17 | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C218     | ECEA1EU100   | E. CAPACITOR 25V 10U      | 1   |         |
| C219     | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C220     | ECSP0JE106   | T. CAPACITOR 6.3V 10U     | 1   |         |
| C221     | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C222     | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C223     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C224, 25 | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 2   |         |
| C226     | ECEA1EU100   | E. CAPACITOR 25V 10U      | 1   |         |
| C227     | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C228     | ECSP0JE106   | T. CAPACITOR 6.3V 10U     | 1   |         |
| C229     | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C230     | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 1   |         |
| C231     | ECEA1CU470   | E. CAPACITOR 16V 47U      | 1   |         |
| C232     | ECUMLE103KBN | C. CAPACITOR CH 50V 0.01U | 1   |         |
| C233, 34 | ECEA1CU470   | E. CAPACITOR 16V 47U      | 2   |         |
| C235, 36 | ECUMLE1042FN | C. CAPACITOR CH 25V 0.1U  | 2   |         |
| CN81     | VJP3079      | CONNECTOR (MALE)          | 1   |         |
| CN82     | VJP1233R     | CONNECTOR (MALE)          | 6P  | 1       |
| CN83     | VJP1233T     | CONNECTOR (MALE)          | 6P  | 1       |
| CN84     | VJP1233G     | CONNECTOR (MALE)          | 6P  | 1       |
| CN85     | VJP1233T     | CONNECTOR (MALE)          | 6P  | 1       |
| CN86     | VJP1233G     | CONNECTOR (MALE)          | 6P  | 1       |
| CN87     | VJP1233T     | CONNECTOR (MALE)          | 6P  | 1       |
| D201     | PA151K       | DIODE                     | 1   |         |

| Ref.No.   | Part No.     | Part Name & Description   | Pcs | Remarks |
|-----------|--------------|---------------------------|-----|---------|
| IC1       | AN78N05      | IC                        | 1   |         |
| IC2       | AN79N05      | IC                        | 1   |         |
| IC7-C9    | AN6308S      | IC                        | 3   |         |
| IC10      | AN6308S      | IC                        | 1   |         |
| IC11-14   | NJM592M6     | IC                        | 4   |         |
| IC201-04  | NJM592M6     | IC                        | 4   |         |
| IC205     | AN78N09      | IC                        | 1   |         |
| L1-16     | VLQEL05S101K | COIL 100UH                | 6   |         |
| L7-19     | VLQEL05S470K | COIL 47UH                 | 3   |         |
| L10       | VLQEL05S470K | COIL 47UH                 | 1   |         |
| L11, 12   | VLQEL05S101K | COIL 100UH                | 2   |         |
| L13, 14   | VLQ0211M2R7  | COIL                      | 2   |         |
| L201-05   | VLQEL05S101K | COIL 100UH                | 5   |         |
| Q5-Q8     | 2SC2295-B    | TRANSISTOR CHIP           | 4   | (B,C)   |
| Q9        | 2SC2851      | TRANSISTOR                | 1   |         |
| Q10-16    | 2SC2851      | TRANSISTOR                | 7   |         |
| Q17-23    | 2SB789-Q     | TRANSISTOR                | 7   | (R)     |
| Q201      | 2SC3757      | TRANSISTOR                | 1   | (Q,R)   |
| Q202, 03  | 2SK316       | TRANSISTOR                | 2   | (Q)     |
| Q204, 05  | 2SC3757      | TRANSISTOR                | 2   | (Q,R)   |
| Q206, 07  | 2SK316       | TRANSISTOR                | 2   | (Q)     |
| Q208, 09  | 2SC3757      | TRANSISTOR                | 2   | (Q,R)   |
| Q210, 11  | 2SK316       | TRANSISTOR                | 2   | (Q)     |
| Q212, 13  | 2SC3757      | TRANSISTOR                | 2   | (Q,R)   |
| Q214, 15  | 2SK316       | TRANSISTOR                | 2   | (Q)     |
| Q216      | 2SC3757      | TRANSISTOR                | 1   | (Q,R)   |
| Q217      | 2SD602       | TRANSISTOR CHIP           | 1   | (Q,R,S) |
| Q218      | UN2213       | TRANSISTOR-RESISTOR       | 1   |         |
| Q219      | 2SD643       | TRANSISTOR                | 1   |         |
| Q220, 21  | 2SD602       | TRANSISTOR CHIP           | 2   | (Q,R,S) |
| Q222-25   | 2SC3757      | TRANSISTOR                | 4   | (Q,R)   |
| RESISTORS |              |                           |     |         |
| R8        | ERJ6GEYJ750  | M. RESISTOR CH 1/10W 75   | 1   |         |
| R16       | ERJ6GEYJ750  | M. RESISTOR CH 1/10W 75   | 1   |         |
| R21, 22   | ERJ6GEYJ470  | M. RESISTOR CH 1/10W 47   | 2   |         |
| R27, 28   | ERJ6GEYJ470  | M. RESISTOR CH 1/10W 47   | 2   |         |
| R29       | ERJ6GEYJ103  | M. RESISTOR CH 1/10W 10K  | 1   |         |
| R30       | ERJ6GEYJ122  | M. RESISTOR CH 1/10W 1.2K | 1   |         |
| R31       | ERJ6GEYJ103  | M. RESISTOR CH 1/10W 10K  | 1   |         |
| R32       | ERJ6GEYJ122  | M. RESISTOR CH 1/10W 1.2K | 1   |         |
| R33       | ERJ6GEYJ103  | M. RESISTOR CH 1/10W 10K  | 1   |         |
| R34       | ERJ6GEYJ122  | M. RESISTOR CH 1/10W 1.2K | 1   |         |
| R35       | ERJ6GEYJ103  | M. RESISTOR CH 1/10W 10K  | 1   |         |
| R36       | ERJ6GEYJ122  | M. RESISTOR CH 1/10W 1.2K | 1   |         |
| R37       | ERJ6GEYJ222  | M. RESISTOR CH 1/10W 2.2K | 1   |         |
| R38       | ERJ6GEYJ471  | M. RESISTOR CH 1/10W 470  | 1   |         |
| R39       | ERJ6GEYJ151  | M. RESISTOR CH 1/10W 150  | 1   |         |
| R40       | ERJ6GEYJ471  | M. RESISTOR CH 1/10W 470  | 1   |         |
| R41       | ERJ6GEYJ101  | M. RESISTOR CH 1/10W 100  | 1   |         |
| R42       | ERJ6GEYJ681  | M. RESISTOR CH 1/10W 680  | 1   |         |
| R43, 44   | ERJ6GEYJ222  | M. RESISTOR CH 1/10W 2.2K | 2   |         |
| R45, 46   | ERJ6GEYJ470  | M. RESISTOR CH 1/10W 47   | 2   |         |
| R47       | ERJ6GEYJ222  | M. RESISTOR CH 1/10W 2.2K | 1   |         |
| R48       | ERJ6GEYJ471  | M. RESISTOR CH 1/10W 470  | 1   |         |
| R49       | ERJ6GEYJ151  | M. RESISTOR CH 1/10W 150  | 1   |         |
| R50       | ERJ6GEYJ471  | M. RESISTOR CH 1/10W 470  | 1   |         |
| R51       | ERJ6GEYJ101  | M. RESISTOR CH 1/10W 100  | 1   |         |
| R52       | ERJ6GEYJ681  | M. RESISTOR CH 1/10W 680  | 1   |         |
| R53, 54   | ERJ6GEYJ222  | M. RESISTOR CH 1/10W 2.2K | 2   |         |
| R55, 56   | ERJ6GEYJ470  | M. RESISTOR CH 1/10W 47   | 2   |         |
| R57       | ERJ6GEYJ222  | M. RESISTOR CH 1/10W 2.2K | 1   |         |
| R58       | ERJ6GEYJ471  | M. RESISTOR CH 1/10W 470  | 1   |         |
| R59       | ERJ6GEYJ151  | M. RESISTOR CH 1/10W 150  | 1   |         |













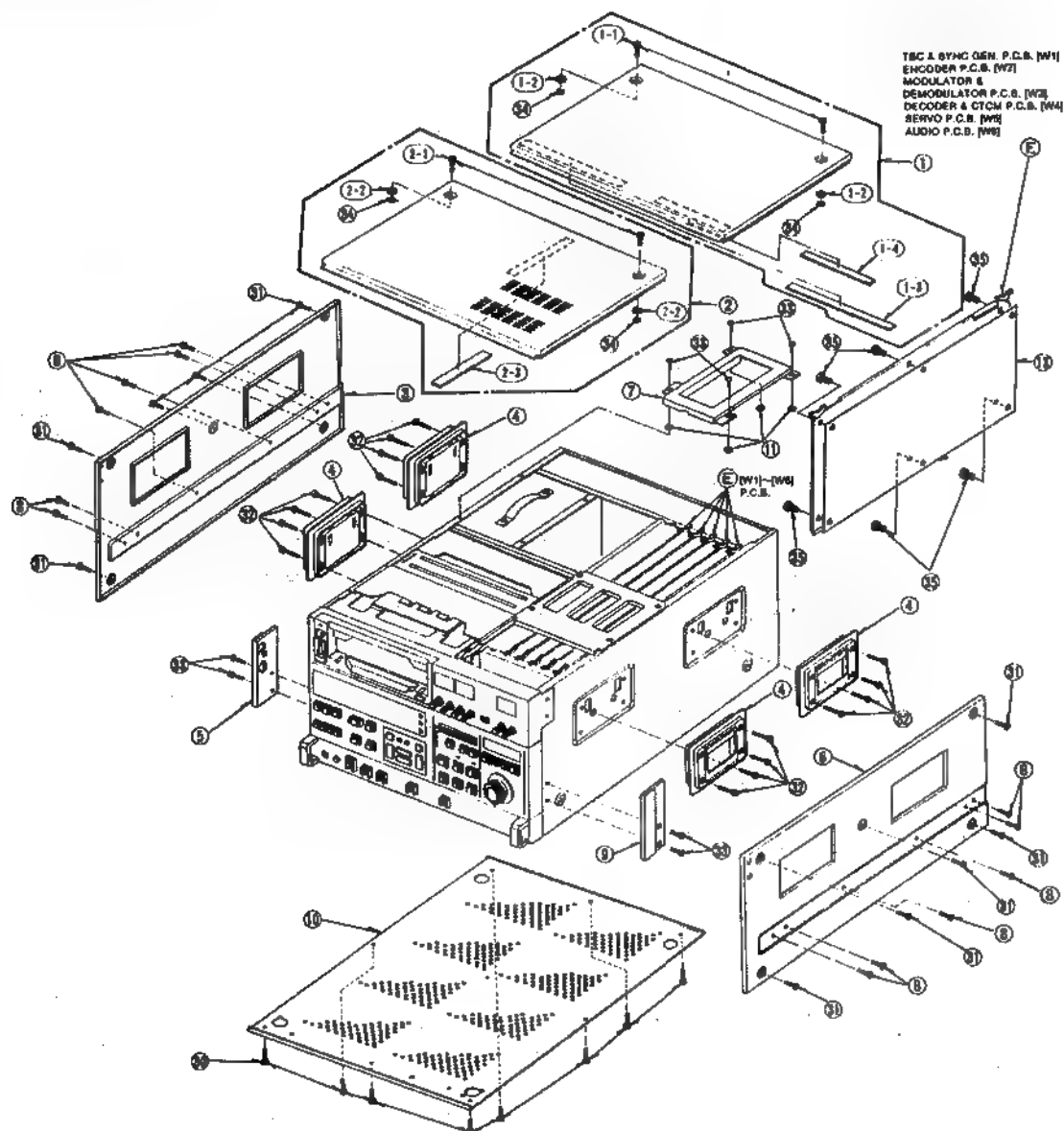






# MECHANICAL REPLACEMENT PARTS LIST

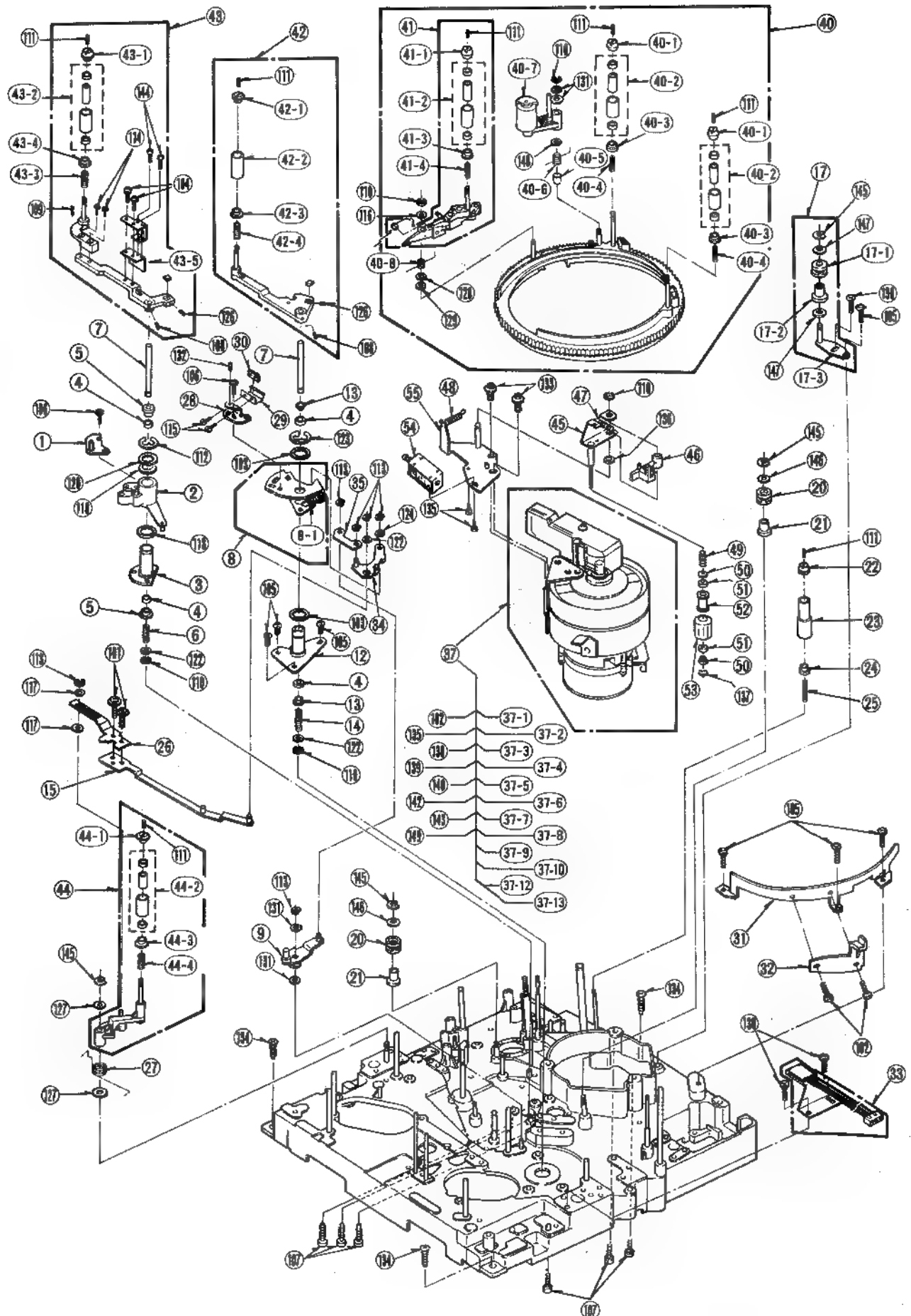
## CASING FRAME ASSEMBLY



## CASING FRAME ASSEMBLY

| Ref.No. | Part No.   | Part Name & Description     | Pcs | Remarks              |
|---------|------------|-----------------------------|-----|----------------------|
| 1       | VYP2980    | REAR TOP COVER UNIT         | 1   |                      |
| 1-1     | VH0274     | TOP COVER SCREW             | 2   |                      |
| 1-2     | VMD0835    | TOP COVER SPACER (SCREW)    | 2   |                      |
| 1-3     | VMD1835    | REAR TOP COVER SPACER (A)   | 1   |                      |
| 1-4     | VMD119     | P.C.B. PRESSURE RUBBER      | 1   |                      |
| 2       | VYP2979    | FRONT TOP COVER UNIT        | 1   |                      |
| 2-1     | VH0274     | TOP COVER SCREW             | 2   |                      |
| 2-2     | VMD0835    | TOP COVER SPACER (SCREW)    | 2   |                      |
| 2-3     | VMD1836    | FRONT TOP COVER SPACER (B)  | 1   |                      |
| 3       | VMD610     | LEFT SIDE COVER             | 1   |                      |
| 4       | VYH0128    | HANDLE                      | 4   |                      |
| 5       | VYK1492    | LEFT SIDE PANEL PLATE UNIT  | 1   |                      |
| 6       | VMD609     | RIGHT SIDE COVER            | 1   |                      |
| 7       | VMP2597    | POWER UNIT MOUNT ANGLE      | 1   |                      |
| 8       | VH0153     | RAIL MOUNT SCREW            | 12  |                      |
| 9       | VYK1491    | RIGHT SIDE PANEL PLATE UNIT | 1   |                      |
| 10      | VMD591     | BOTTOM PLATE                | 1   |                      |
| 11      | VMD1558    | WASHER                      | 4   |                      |
| 13      | VXA3966    | W P.C.B. SHIELD PLATE       | 6   | Spec. AU-63H, AU-62H |
| 30      | XSB3+6S    | SCREW                       | 11  |                      |
| 31      | XSB4+8PCS  | SCREW                       | 10  |                      |
| 32      | XSB4+16PCS | SCREW                       | 16  |                      |
| 33      | XTV3+6P    | SCREW                       | 11  |                      |
| 34      | XUC3FP     | E-RING                      | 4   |                      |
| 35      | XYN3+K6FR  | SCREW                       | 6   |                      |

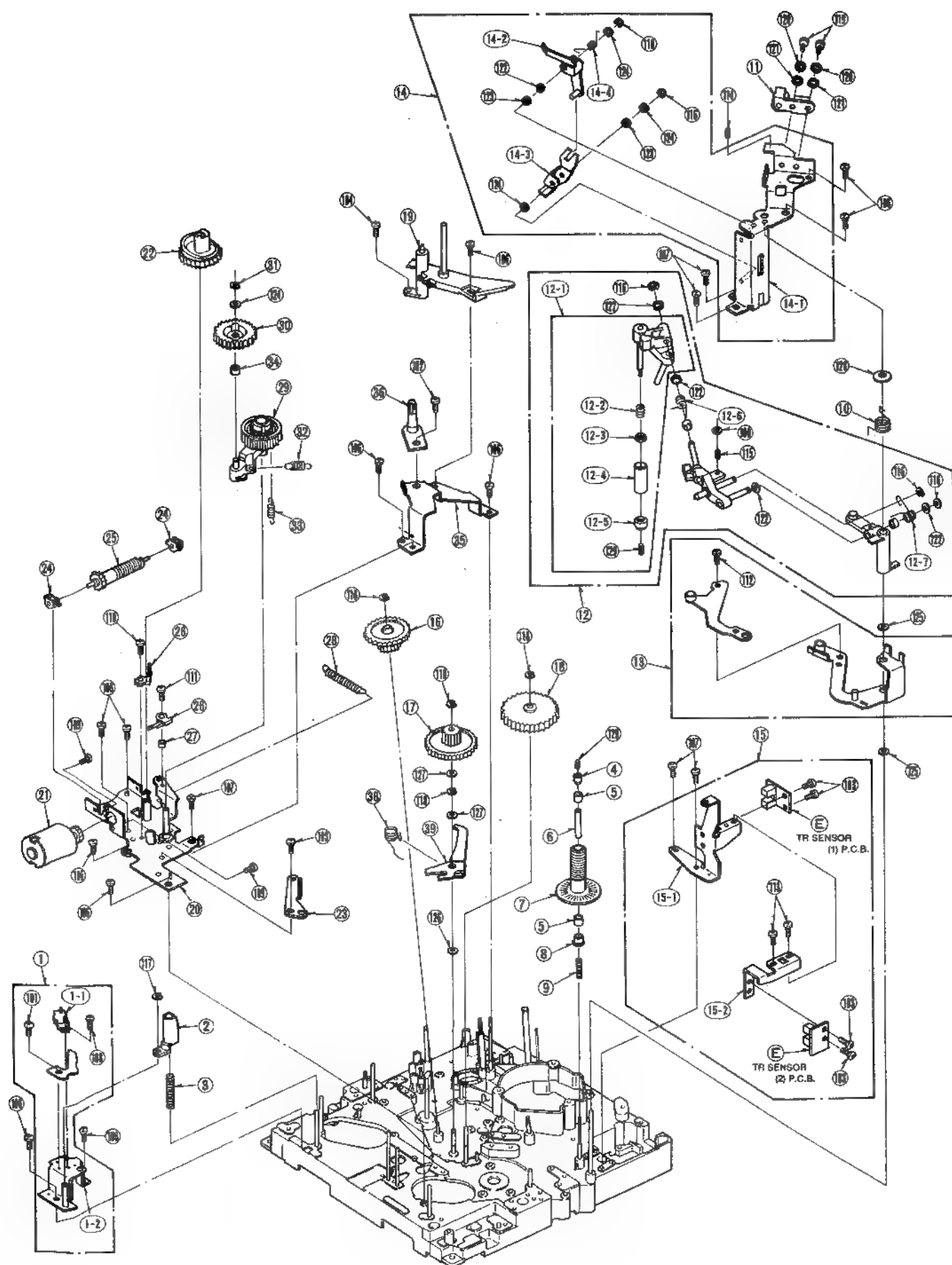
# MECHANICAL CHASSIS ASSEMBLY (1)



# MECHANICAL CHASSIS ASSEMBLY (1)

| Ref. No. | Part No. | Part Name & Description          | Pcs | Remarks        | Ref. No. | Part No.    | Part Name & Description    | Pcs | Remarks        |
|----------|----------|----------------------------------|-----|----------------|----------|-------------|----------------------------|-----|----------------|
| 1        | VXA2302  | STOPPER PIN BASE UNIT            | 1   |                | 42-2     | VXPO820     | POST ROLLER (A) UNIT       | 1   |                |
| 2        | VXL1309  | SUPPLY TA SUB-ARM (1) UNIT       | 1   |                | 42-3     | VMS2800     | LOWER FLANGE (P3)          | 1   |                |
| 3        | VDBO772  | SUPPLY TENSION SUPPORT HOUSING   | 1   |                | 42-4     | VMB1378     | POST SPRING                | 1   |                |
| 4        | VDBO779  | BEARING                          | 4   |                | 42-5     | VXL1991     | TAKE-UP TENSION ARM UNIT   | 1   |                |
| 5        | VMD0794  | BEARING RETAINER                 | 2   |                | 43       | VXL1320     | SUPPLY TENSION ARM UNIT    | 1   |                |
| 6        | VMB1378  | POST SPRING                      | 1   |                | 43-1     | VMS4572     | UPPER FLANGE (P2)          | 1   |                |
| 7        | VMS3662  | PANEL FIXTURE (LEFT)             | 2   |                | 43-2     | VXPO820     | POST ROLLER (A) UNIT       | 1   |                |
| 8        | VXA4001  | TAKE-UP DRAW OUT ARM UNIT        | 1   |                | 43-3     | VMB1378     | POST SPRING                | 1   |                |
| 8-1      | VMB2131  | TAKE-UP TENSION CHARGE SPRING    | 1   |                | 43-4     | VMS2801     | LOWER FLANGE (P2)          | 1   |                |
| 9        | VXA3994  | TAKE-UP DRAW-UP DRIVE LEVER UNIT | 1   |                | 43-5     | VMC0119     | SUPPLY TENSION LEAF SPRING | 1   |                |
| 12       | VXD0126  | TAKE-UP TENSION HOUSING          | 1   |                | 44       | VXL1323     | DRAW-OUT ARM UNIT          | 1   |                |
| 13       | VMD0794  | BEARING RETAINER                 | 2   |                | 44-1     | VMS3639     | UPPER FLANGE (P1)          | 1   |                |
| 14       | VMB1377  | POST SPRING                      | 1   |                | 44-2     | VXPO820     | POST ROLLER (A) UNIT       | 1   |                |
| 15       | VXA4003  | P1 ARM DRIVE ROD II UNIT         | 1   |                | 44-3     | VMS2800     | LOWER FLANGE (P3)          | 1   |                |
| 17       | VGR0206  | RING ROLLER UNIT                 | 1   |                | 44-4     | VMB1378     | POST SPRING                | 1   |                |
| 17-1     | VDP1360  | RING ROLLER                      | 1   |                | 45       | VXL1994     | CLEANER ARM (A) UNIT       | 1   |                |
| 17-2     | VDB1079  | RING ROLLER BOSS                 | 1   |                | 45       | VML2393     | CLEANER ARM (B)            | 1   |                |
| 17-3     | VXA4252  | RING ROLLER (1) UNIT             | 1   |                | 47       | VMB2128     | ROLLER PRESSURE SPRING     | 1   |                |
| 20       | VDP1360  | RING ROLLER                      | 2   |                | 48       | VMB2129     | ROLLER SPRING              | 1   |                |
| 21       | VDB1079  | RING ROLLER BOSS                 | 2   |                | 49       | VMB1379     | POST SPRING (P3)           | 1   |                |
| 22       | VMS3712  | UPPER FLANGE (P4)                | 1   |                | 50       | VMD1161     | P4 BEARING PRESSURE        | 2   |                |
| 23       | VXPO824  | LIMITER ROLLER (B) UNIT          | 1   |                | 51       | VDBO778     | BEARING                    | 2   |                |
| 24       | VMS2806  | POST BEARING RETAINER (A) (P4)   | 1   |                | 52       | VDP1321     | CLEANER ROLLER             | 1   |                |
| 25       | VMB1379  | POST SPRING (P3)                 | 1   |                | 53       | VMT0321     | CLEANER                    | 1   |                |
| 26       | VMD237   | P1 ARM DRIVE ROD (1)             | 1   |                | 54       | VMS0096     | CLEANER SOLENOID           | 1   |                |
| 27       | VMB1362  | P1 ARM DRAW-OUT SPRING           | 1   |                | 55       | VXA4016     | CLEANER BASE UNIT          | 1   |                |
| 28       | VMA8178  | TAKE-UP TENSION REGULATING PLATE | 1   |                | 56       | VXA4013     | T-STOPPER PIN BASE UNIT    | 1   |                |
| 29       | VMC0595  | TAKE-UP TENSION LEAF SPRING      | 1   |                |          |             |                            |     |                |
| 30       | VMA8181  | FIXING PLATE                     | 1   |                | 101      | KYN26+P5F2S | SCREW                      | 2   |                |
| 31       | VMA6652  | TURN ROLLER LIFTER               | 1   |                | 102      | KYN26+C4    | SCREW                      | 3   |                |
| 32       | VML1780  | STOPPER ARM                      | 1   |                | 103      | KMGV33D13G  | WASHER                     | 2   |                |
| 33       | VEK3785  | TAKE-UP MAGNETIC SENSOR UNIT     | 1   |                | 104      | KYN26+K8    | SCREW                      | 2   |                |
| 34       | VXA4002  | STOPPER ARM UNIT                 | 1   |                | 105      | KTV3+6F     | SCREW                      | 7   |                |
| 35       | VMD236   | DRAW-OUT ROD                     | 1   |                | 106      | KYN26+K5    | SCREW                      | 2   |                |
| 37       | VEG0837  | DRUM UNIT                        | 1   | AU-65H         | 107      | KYN23+K10S  | SCREW                      | 6   |                |
| 37       | VEG0839  | DRUM UNIT                        | 1   | AU-63H         | 108      | KXE26W3FP   | HEX HEAD SCREW             | 2   |                |
| 37       | VEG0838  | DRUM UNIT                        | 1   | AU-62H         | 109      | KXE26A4FP   | HEX HEAD SCREW             | 1   |                |
| 37-1     | VEHD494  | UPPER DRUM UNIT                  | 1   | AU-65H, AU-62H | 110      | KUC25FP     | E RING                     | 4   |                |
| 37-1     | VEHD495  | UPPER DRUM UNIT                  | 1   | AU-63H         | 111      | KXE2C25FP   | HEX HEAD SCREW             | 8   |                |
| 37-2     | VMD1572  | RT ARM BLOCK                     | 1   |                | 112      | KUC8FP      | E RING                     | 1   |                |
| 37-3     | VEK2372  | DEW SENSOR                       | 1   |                | 113      | KUC2FP      | E RING                     | 1   |                |
| 37-4     | VSC1334  | SHIELD PLATE                     | 1   |                | 114      | XS2+6       | SCREW                      | 2   |                |
| 37-5     | VAG0273  | TAPE GUIDE                       | 1   |                | 115      | KYN2+C4     | SCREW                      | 2   |                |
| 37-6     | VSC2693  | SHIELD BAND                      | 1   |                | 116      | KMGV3Y6G    | WASHER                     | 1   |                |
| 37-7     | VKS0102  | BRUSH UNIT                       | 1   | AU-63H         | 117      | KMGV25D5G   | WASHER                     | 2   |                |
| 37-8     | VKS0092  | SLIP-RING UNIT                   | 1   | AU-63H         | 118      | KMGV10D15G  | WASHER                     | 2   |                |
| 37-9     | VEG0781  | LOWER DRUM UNIT                  | 1   | AU-65H         | 120      | KMGV10V15G  | WASHER                     | 1   |                |
| 37-9     | VEG0812  | LOWER DRUM UNIT                  | 1   | AU-63H         | 122      | KMG3        | WASHER                     | 3   |                |
| 37-9     | VEG0809  | LOWER DRUM UNIT                  | 1   | AU-62H         | 123      | KUC7FP      | E RING                     | 1   |                |
| 37-10    | VMD1612  | BRUSH COVER                      | 1   | AU-63H         | 124      | KMGV3Y6G    | WASHER                     | 1   |                |
| 37-12    | VMA8157  | EARTH ANGLE                      | 1   | AU-65H         | 126      | KXE2D3FP    | HEX HEAD SCREW             | 1   |                |
| 37-13    | VKS0096  | EARTH BRUSH                      | 1   | AU-65H         | 127      | KMGV4D9G    | WASHER                     | 1   |                |
| 40       | VXP1182  | LOADING RING UNIT                | 1   |                | 128      | KMGV3D8G    | WASHER                     | 1   |                |
| 40-1     | VMS3638  | UPPER FLANGE                     | 2   |                | 129      | KMGV3Y8G    | WASHER                     | 1   |                |
| 40-2     | VXPO821  | POST ROLLER (B) UNIT             | 2   |                | 130      | KTV3+6FFZ   | SCREW                      | 3   |                |
| 40-3     | VMS2803  | LOWER FLANGE                     | 2   |                | 131      | KMGV3D6G    | WASHER                     | 4   |                |
| 40-4     | VMB1377  | POST SPRING                      | 2   |                | 132      | KXE2C8FP    | HEX HEAD SCREW             | 1   |                |
| 40-5     | VMD1406  | PINCH ARM SHAFT COLLAR           | 1   |                | 133      | KYN3+P6F2S  | SCREW                      | 2   |                |
| 40-6     | VMB1379  | PINCH ROLLER RETURN SPRING       | 1   |                | 134      | KYN4+C10S   | SCREW                      | 3   |                |
| 40-7     | VXL1288  | PINCH ROLLER ARM UNIT            | 1   |                | 135      | KYN2+C3     | SCREW                      | 3   |                |
| 40-8     | VMB1796  | TR ARM RETURN SPRING A           | 1   |                | 136      | KMGV3D6G    | WASHER                     | 1   |                |
| 41       | VXL1754  | TURN ROLLER ARM UNIT             | 1   |                | 137      | KUC15FP     | E-RING                     | 1   |                |
| 41-1     | VMS3638  | UPPER FLANGE                     | 1   |                | 138      | KYN3+C6     | SCREW                      | 4   |                |
| 41-2     | VXPO821  | POST ROLLER (B) UNIT             | 1   |                | 139      | KYN3+A10BW  | SCREW                      | 2   |                |
| 41-3     | VMS2803  | LOWER FLANGE                     | 1   |                | 140      | KYN2+C3     | SCREW                      | 1   |                |
| 41-4     | VMB1376  | POST SPRING                      | 1   |                | 142      | KYN3+A4     | SCREW                      | 1   | AU-65H, AU-62H |
| 42       | VXL2189  | TAKE-UP TENSION ARM UNIT         | 1   |                | 143      | KYN26+C6    | SCREW                      | 3   |                |
| 42-1     | VMS4571  | UPPER FLANGE (P1)                | 1   |                | 144      | XS2+4       | SCREW                      | 2   |                |
|          |          |                                  |     |                | 145      | KUC3FP      | E-RING                     | 4   |                |
|          |          |                                  |     |                | 146      | KMGV4D7G    | WASHER                     | 2   |                |
|          |          |                                  |     |                | 147      | KMGV4F7G    | WASHER                     | 2   |                |
|          |          |                                  |     |                | 148      | KMGV326G    | WASHER                     | 1   |                |
|          |          |                                  |     |                | 149      | KYN40015    | SCREW                      | 1   | AU-65H         |

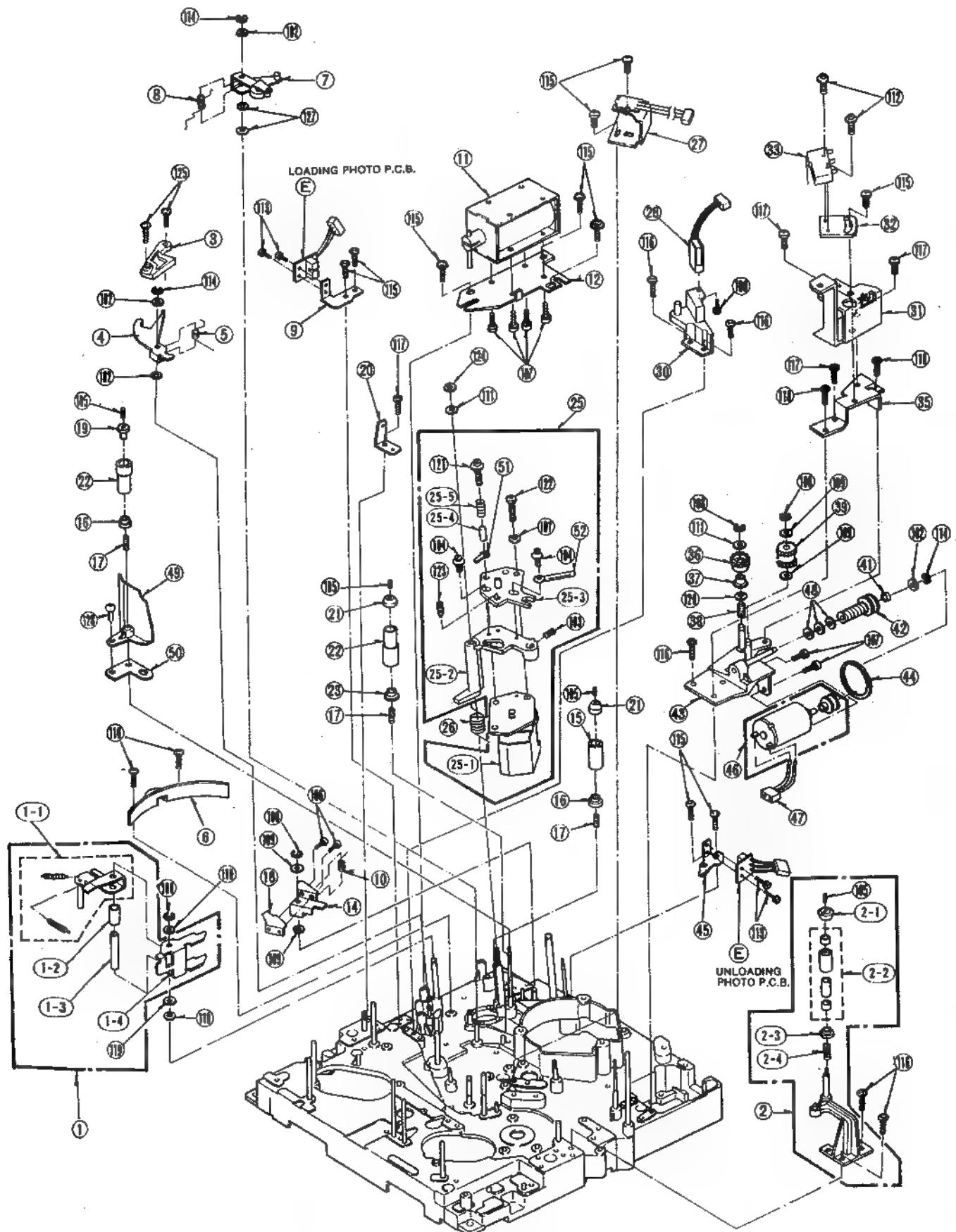
## MECHANICAL CHASSIS ASSEMBLY (2)



## MECHANICAL CHASSIS ASSEMBLY (2)

| Ref.No. | Part No.   | Part Name & Description                | Pcs | Remarks | Ref.No. | Part No.   | Part Name & Description | Pcs | Remarks |
|---------|------------|--|-----|---------|---------|------------|-------------------------|-----|---------|
| 1       | MSO565     | DETECTION BIT (L) UNIT                 | 1   |         | 113     | XYN26-F5FZ | SCREW                   | 2   |         |
| 1-1     | EVOMUS002  | CASSETTE ID MODE SWITCH                | 1   |         | 114     | XKE3M6FP   | HEX HEAD SCREW          | 1   |         |
| 1-2     | VOM4000    | DETECTION BIT (L) (I) UNIT             | 1   |         | 115     | XKE3C6FP   | HEX HEAD SCREW          | 1   |         |
| 2       | WMD1147    | CASSETTE GUIDE S                       | 1   |         | 116     | XUC25FP    | E-RING                  | 6   |         |
| 3       | WMD1832    | CASSETTE GUIDE S SPRING                | 1   |         | 117     | XUC2FP     | E-RING                  | 1   |         |
| 4       | WMD0046    | TIMER ROLLER NUT                       | 1   |         | 118     | XUC3FP     | E-RING                  | 3   |         |
| 5       | VDB0778    | BEARING                                | 2   |         | 119     | XVE3B6FP   | HEX HEAD SCREW          | 2   |         |
| 6       | WMD0601    | TIMER ROLLER INNER COLLAR              | 1   |         | 120     | XWA3B      | WASHER                  | 2   |         |
| 7       | VXP1183    | TIMER ROLLER UNIT                      | 1   |         | 121     | XWE3       | WASHER                  | 2   |         |
| 8       | WNS2806    | POST BEARING RETAINER (A)<br>(P4)      | 1   |         | 122     | XMGV3D6G   | WASHER                  | 5   |         |
| 9       | WMD1379    | POST SPRING (P3)                       | 1   |         | 123     | XMGV3P6G   | WASHER                  | 2   |         |
| 10      | WMD1801    | P10 RETURN SPRING                      | 1   |         | 124     | XMGV3Y6G   | WASHER                  | 4   |         |
| 11      | WGA2525    | TILT ADJUST BASE UNIT                  | 1   |         | 125     | XMGV4D7G   | WASHER                  | 2   |         |
| 12      | WLI1786    | SUB-LOADING ARM UNIT                   | 1   |         | 126     | XMGV4F7G   | WASHER                  | 1   |         |
| 12-1    | WXR0131    | IP BASE UNIT                           | 1   |         | 127     | XMGV4Y7G   | WASHER                  | 2   |         |
| 12-2    | WMD1376    | POST SPRING                            | 1   |         | 128     | XMGV4Y9G   | WASHER                  | 1   |         |
| 12-3    | WNS2870    | BEARING RETAINER                       | 1   |         | 129     | XKE2C25FP  | HEX HEAD SCREW          | 2   |         |
| 12-4    | WXP0822    | POST BEARING (C) UNIT                  | 1   |         |         |            |                         |     |         |
| 12-5    | WNS3638    | UPPER FLANGE                           | 1   |         |         |            |                         |     |         |
| 12-6    | WMD1368    | TILT RETURN SPRING                     | 1   |         |         |            |                         |     |         |
| 12-7    | WMD1375    | IP ARM RETURN SPRING                   | 1   |         |         |            |                         |     |         |
| 13      | WLI2066    | ROLLER ARM (C) UNIT                    | 1   |         |         |            |                         |     |         |
| 14      | WGA3990    | SUB-LOADING COVER ASSEMBLY             | 1   |         |         |            |                         |     |         |
| 14-1    | WGA3996    | SUB-LOADING COVER (I) UNIT             | 1   |         |         |            |                         |     |         |
| 14-2    | WLI1294    | UPRIGHT LEVER UNIT                     | 1   |         |         |            |                         |     |         |
| 14-3    | WLI1694    | UPRIGHT DRIVE LEVER                    | 1   |         |         |            |                         |     |         |
| 14-4    | WMD1762    | UPRIGHT LEVER RETURN SPRING            | 1   |         |         |            |                         |     |         |
| 15      | WGA3989    | TR SENSOR ANGLE UNIT                   | 1   |         |         |            |                         |     |         |
| 15-1    | WMA171     | TR SENSOR ANGLE (I)                    | 1   |         |         |            |                         |     |         |
| 15-2    | WMA172     | TR SENSOR ANGLE (II)                   | 1   |         |         |            |                         |     |         |
| 16      | WDO667     | RING JUNCTION GEAR (I)                 | 1   |         |         |            |                         |     |         |
| 17      | WDO668     | RING JUNCTION GEAR (II)                | 1   |         |         |            |                         |     |         |
| 18      | WDO669     | GEAR WITH CAM                          | 1   |         |         |            |                         |     |         |
| 19      | WGA8011    | PINCH ROLLER GUIDE UNIT                | 1   |         |         |            |                         |     |         |
| 20      | WGA3997    | CASSETTE REEL BASE II (I)              | 1   |         |         |            |                         |     |         |
| 21      | WMD264     | WORM UNIT                              | 1   |         |         |            |                         |     |         |
| 22      | WDO666     | CAM WORM WHEEL                         | 1   |         |         |            |                         |     |         |
| 23      | WMA170     | POSITIONING PLATE                      | 1   |         |         |            |                         |     |         |
| 24      | VDB0833    | WORM BEARING                           | 2   |         |         |            |                         |     |         |
| 25      | VXP1019    | CASSETTE II WORM SHAFT UNIT            | 1   |         |         |            |                         |     |         |
| 26      | WSD0026    | LEAF SWITCH                            | 2   |         |         |            |                         |     |         |
| 27      | WMD400     | LEAF SWITCH SPACER                     | 1   |         |         |            |                         |     |         |
| 28      | WMD2132    | BALANCING SPRING 1                     | 1   |         |         |            |                         |     |         |
| 29      | WGA3999    | CASSETTE S REEL STAND BASE<br>(1) UNIT | 1   |         |         |            |                         |     |         |
| 30      | WDO670     | CASSETTE II REEL<br>INTERMEDIATE GEAR  | 1   |         |         |            |                         |     |         |
| 31      | WMD653     | OUT WASHER                             | 1   |         |         |            |                         |     |         |
| 32      | WMD2140    | INTERMEDIATE GEAR SPRING               | 1   |         |         |            |                         |     |         |
| 33      | WMD2141    | CASSETTE S REEL STAND<br>SPRING        | 1   |         |         |            |                         |     |         |
| 34      | VDB0429    | BEARING                                | 1   |         |         |            |                         |     |         |
| 35      | WMA177     | LAMP MOUNT BASE                        | 1   |         |         |            |                         |     |         |
| 36      | WEC3493    | LAMP MOUNT (1) UNIT                    | 1   |         |         |            |                         |     |         |
| 38      | WMD2135    | SUPPLY DRIVE ARM RETURN<br>SPRING      | 1   |         |         |            |                         |     |         |
| 39      | WML2387    | SUPPLY TENSION DRIVE ARM               | 1   |         |         |            |                         |     |         |
| 100     | XNG3C8     | NUT                                    | 1   |         |         |            |                         |     |         |
| 101     | XSN2+3     | SCREW                                  | 1   |         |         |            |                         |     |         |
| 102     | XSS26+5    | SCREW                                  | 1   |         |         |            |                         |     |         |
| 103     | XTV26+4F   | SCREW                                  | 5   |         |         |            |                         |     |         |
| 104     | XTV26+8F   | SCREW                                  | 1   |         |         |            |                         |     |         |
| 106     | XTV3+6F    | SCREW                                  | 1   |         |         |            |                         |     |         |
| 107     | XTV3+8F    | SCREW                                  | 5   |         |         |            |                         |     |         |
| 108     | XQN16+A3   | SCREW                                  | 1   |         |         |            |                         |     |         |
| 109     | XYN2-C4    | SCREW                                  | 2   |         |         |            |                         |     |         |
| 110     | XYN2-C5    | SCREW                                  | 1   |         |         |            |                         |     |         |
| 111     | XYN2-C8    | SCREW                                  | 1   |         |         |            |                         |     |         |
| 112     | XYN26-F5FZ | SCREW                                  | 1   |         |         |            |                         |     |         |

# MECHANICAL CHASSIS ASSEMBLY (3)

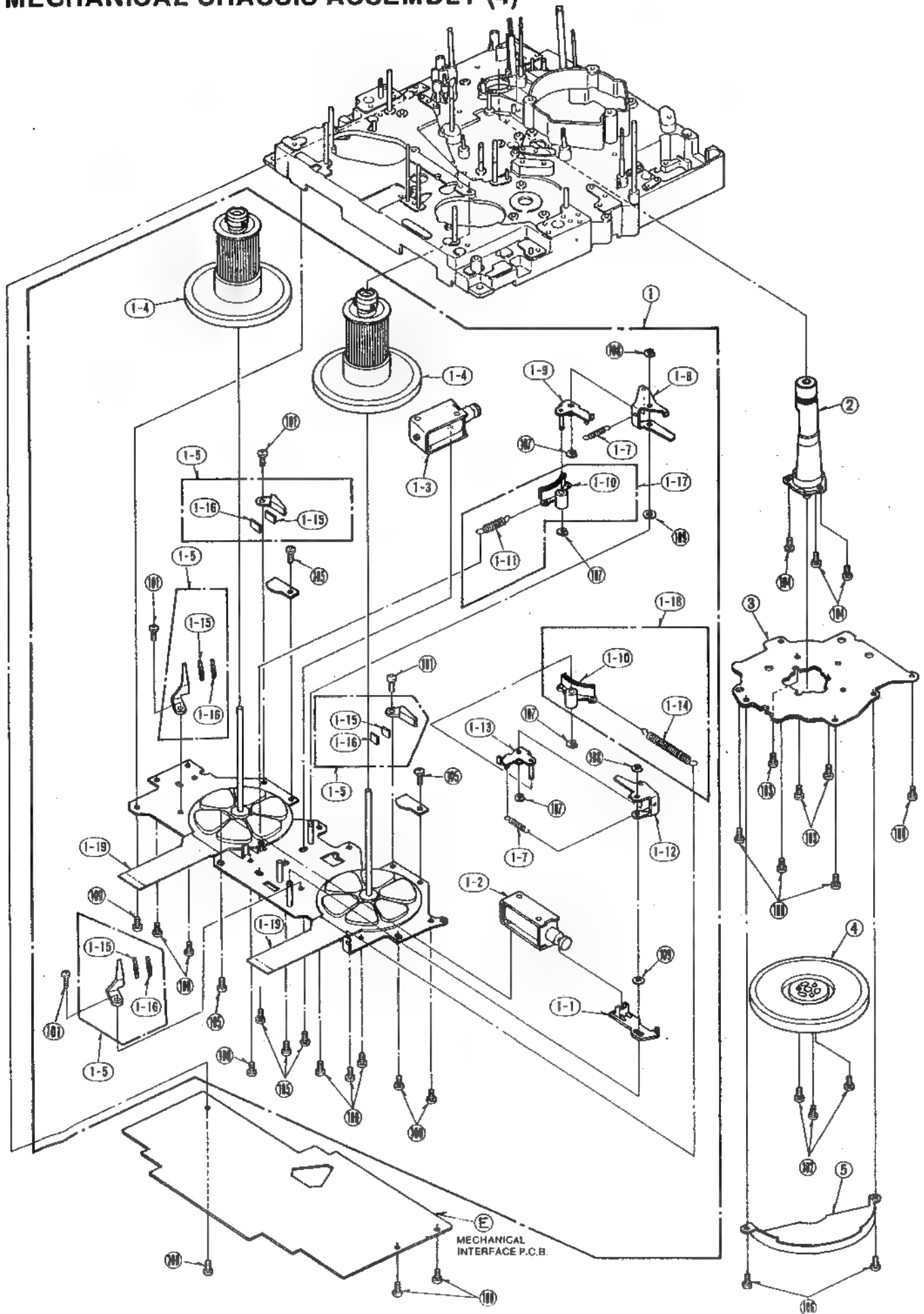




## MECHANICAL CHASSIS ASSEMBLY (3)

| Ref.No. | Part No. | Part Name & Description           | Pcs | Remarks         | Ref.No. | Part No.   | Part Name & Description | Pcs | Remarks |
|---------|----------|-----------------------------------|-----|-----------------|---------|------------|-------------------------|-----|---------|
| 1       | VXLI679  | PINCH PRESSURE LEVER UNIT         | 1   |                 | 100     | XVNZ+C5    | SCREW                   | 1   |         |
| 1-1     | VXLI680  | PINCH DRIVE ARM UNIT              | 1   |                 | 101     | XWG26      | WASHER                  | 1   |         |
| 1-2     | VMD0800  | PINCH COLLAR (3)                  | 1   |                 | 102     | XMGV306G   | WASHER                  | 4   |         |
| 1-3     | VMD0799  | PINCH COLLAR (2)                  | 1   |                 | 103     | XKCE306FP  | HEX HEAD SCREW          | 1   |         |
| 1-4     | VMI1675  | PINCH PRESSURE LEVER              | 1   |                 | 104     | XVNZ26+P6  | SCREW                   | 2   |         |
| 2       | VCA3226  | CASSETTE POSITIONING BASE UNIT    | 1   |                 | 105     | XKCE2C25FP | HEX HEAD SCREW          | 4   |         |
| 2-1     | VMS3638  | UPPER FLANGE                      | 1   |                 | 106     | XVNZ26+C4  | SCREW                   | 2   |         |
| 2-2     | VXP0821  | POST ROLLER (B) UNIT              | 1   |                 | 107     | XVNZ3+C56  | SCREW                   | 6   |         |
| 2-3     | VMS2803  | LOWER FLANGE                      | 1   |                 | 108     | XUC3FP     | E RING                  | 4   |         |
| 2-4     | VMB1376  | POST SPRING                       | 1   |                 | 109     | XMGV4D7G   | WASHER                  | 4   |         |
| 3       | VMA7289  | STOPPER RETAINER                  | 1   |                 | 110     | XMGV4D9G   | WASHER                  | 2   |         |
| 4       | VMI1702  | TR STOPPER LEVER                  | 1   |                 | 111     | XMB4       | WASHER                  | 1   |         |
| 5       | VMB1372  | STOPPER LEVER RETURN SPRING       | 1   |                 | 112     | XVNZ26+P10 | SCREW                   | 2   |         |
| 6       | VMD1412  | TURN ROLLER GUIDE A               | 1   |                 | 113     | XTV26+4F   | SCREW                   | 4   |         |
| 7       | VXLI1995 | DRIVE ARM UNIT                    | 1   |                 | 114     | XUC25FP    | E RING                  | 3   |         |
| 8       | VMB2134  | DRIVE ARM RETURN SPRING           | 1   |                 | 115     | XTV3+6FFZ  | SCREW                   | 10  |         |
| 9       | VMA6624  | LOADING PHOTO PLATE               | 1   |                 | 116     | XTV3+8F    | SCREW                   | 7   |         |
| 10      | VMB1345  | UNLOADING DETECTION RETURN SPRING | 1   |                 | 117     | XTV3+6F    | SCREW                   | 4   |         |
| 11      | VSI0069  | PINCH SOLENOID                    | 1   |                 | 118     | XTV3+10F   | SCREW                   | 1   |         |
| 12      | VMA6608  | PINCH SOLENOID BASE               | 1   |                 | 119     | XMGV5D9G   | WASHER                  | 1   |         |
| 13      | VMI2091  | UNLOADING DETECTION ARM           | 1   |                 | 120     | XMG4FC     | WASHER                  | 1   |         |
| 15      | VXP0819  | POST ROLLER (A1) UNIT (P6)        | 1   |                 | 121     | XVNZ3+F18  | SCREW                   | 1   |         |
| 16      | VMS2800  | LOWER FLANGE (P3)                 | 2   |                 | 122     | XSN26+125  | SCREW                   | 1   |         |
| 17      | VMB1379  | POST SPRING (P3)                  | 3   |                 | 123     | XKCE3A8FP  | HEX HEAD SCREW          | 1   |         |
| 18      | VMA6685  | TURN ROLLER RETAINER              | 1   |                 | 124     | XMG4ES     | NUT                     | 1   |         |
| 19      | VMS2807  | POST BEARING RETAINER (B) (P3)    | 1   |                 | 125     | XTV26+6F   | SCREW                   | 2   |         |
| 20      | VMA6625  | PINCH RETURN SPRING HOOK          | 1   |                 | 127     | XMGV3F6G   | WASHER                  | 2   |         |
| 21      | VMS3712  | UPPER FLANGE (P4)                 | 2   |                 | 128     | XSN26+4    | SCREW                   | 1   |         |
| 22      | VXP0823  | LIMITER ROLLER (A) UNIT (P3)      | 2   |                 |         |            |                         |     |         |
| 23      | VMS2806  | POST BEARING RETAINER (A) (P4)    | 1   |                 |         |            |                         |     |         |
| 25      | VED0140  | A/C HEAD UNIT                     | 1   | AU-65H          |         |            |                         |     |         |
| 25      | VED0142  | A/C HEAD UNIT                     | 1   | AU-63H,AU-62H   |         |            |                         |     |         |
| 25-1    | VBRD167  | A/C HEAD                          | 1   | AU-65H          |         |            |                         |     |         |
| 25-1    | VBRD168  | A/C HEAD                          | 1   | AU-63H,AU-62H   |         |            |                         |     |         |
| 25-2    | VMD1579  | A/C HEAD HEIGHT ADJUSTMENT BASE   | 1   |                 |         |            |                         |     |         |
| 25-3    | VMA4085  | HEAD MOUNTING BASE UNIT           | 1   |                 |         |            |                         |     |         |
| 25-4    | VMD1441  | ADJUST LOCK COLLAR                | 1   |                 |         |            |                         |     |         |
| 25-5    | VMB1843  | ADJUST SPRING                     | 1   |                 |         |            |                         |     |         |
| 26      | VMB2147  | HEAD SPRING                       | 1   |                 |         |            |                         |     |         |
| 27      | VEK3784  | SUPPLY MAGNETIC SENSOR MOUNT UNIT | 1   |                 |         |            |                         |     |         |
| 28      | VBS0024  | FE HEAD                           | 1   | AU-65H          |         |            |                         |     |         |
| 29      | VBS0043  | FE HEAD                           | 1   | AU-63H,AU-62H   |         |            |                         |     |         |
| 30      | VMA7293  | FE HEAD BASE                      | 1   |                 |         |            |                         |     |         |
| 31      | VMA7295  | MICROSWITCH BASE                  | 1   |                 |         |            |                         |     |         |
| 32      | VMA6715  | MICROSWITCH REGULATING PLATE      | 1   |                 |         |            |                         |     |         |
| 33      | VMD042   | MICROSWITCH                       | 1   |                 |         |            |                         |     |         |
| 35      | VMA6806  | MOTOR HOLDER COVER                | 1   |                 |         |            |                         |     |         |
| 36      | VDD0215  | RING DRIVE GEAR                   | 1   |                 |         |            |                         |     |         |
| 37      | VMD1405  | DRIVE GEAR SLEEVE A               | 1   |                 |         |            |                         |     |         |
| 38      | VMB1343  | DRIVE GEAR PRESSURE SPRING        | 1   |                 |         |            |                         |     |         |
| 39      | VDD0216  | JUNCTION GEAR                     | 1   |                 |         |            |                         |     |         |
| 41      | VDB0899  | BEARING                           | 1   |                 |         |            |                         |     |         |
| 42      | VXP1056  | WORM PULLEY UNIT                  | 1   |                 |         |            |                         |     |         |
| 43      | VXA2287  | LOADING MOTOR HOLDER UNIT         | 1   |                 |         |            |                         |     |         |
| 44      | VMD156   | LOADING BELT                      | 1   |                 |         |            |                         |     |         |
| 45      | VMA6623  | UNLOADING PHOTO MOUNT             | 1   |                 |         |            |                         |     |         |
| 46      | VMD0323  | LOADING MOTOR UNIT                | 1   |                 |         |            |                         |     |         |
| 46-1    | VMD0030  | LOADING MOTOR                     | 1   |                 |         |            |                         |     |         |
| 47      | VEE3971  | CONNECTOR UNIT                    | 1   |                 |         |            |                         |     |         |
| 48      | VDB0371  | THRUST BEARING                    | 3   |                 |         |            |                         |     |         |
| 49      | VMD1596  | DO PROTECTOR COVER                | 1   |                 |         |            |                         |     |         |
| 50      | VMA6285  | DO PROTECTOR COVER BASE           | 1   |                 |         |            |                         |     |         |
| 51      | VJR3     | CLAMPER                           | 1   |                 |         |            |                         |     |         |
| 52      | VJR3     | CLAMPER                           | 1   | AU-65+P,AU-65-E |         |            |                         |     |         |

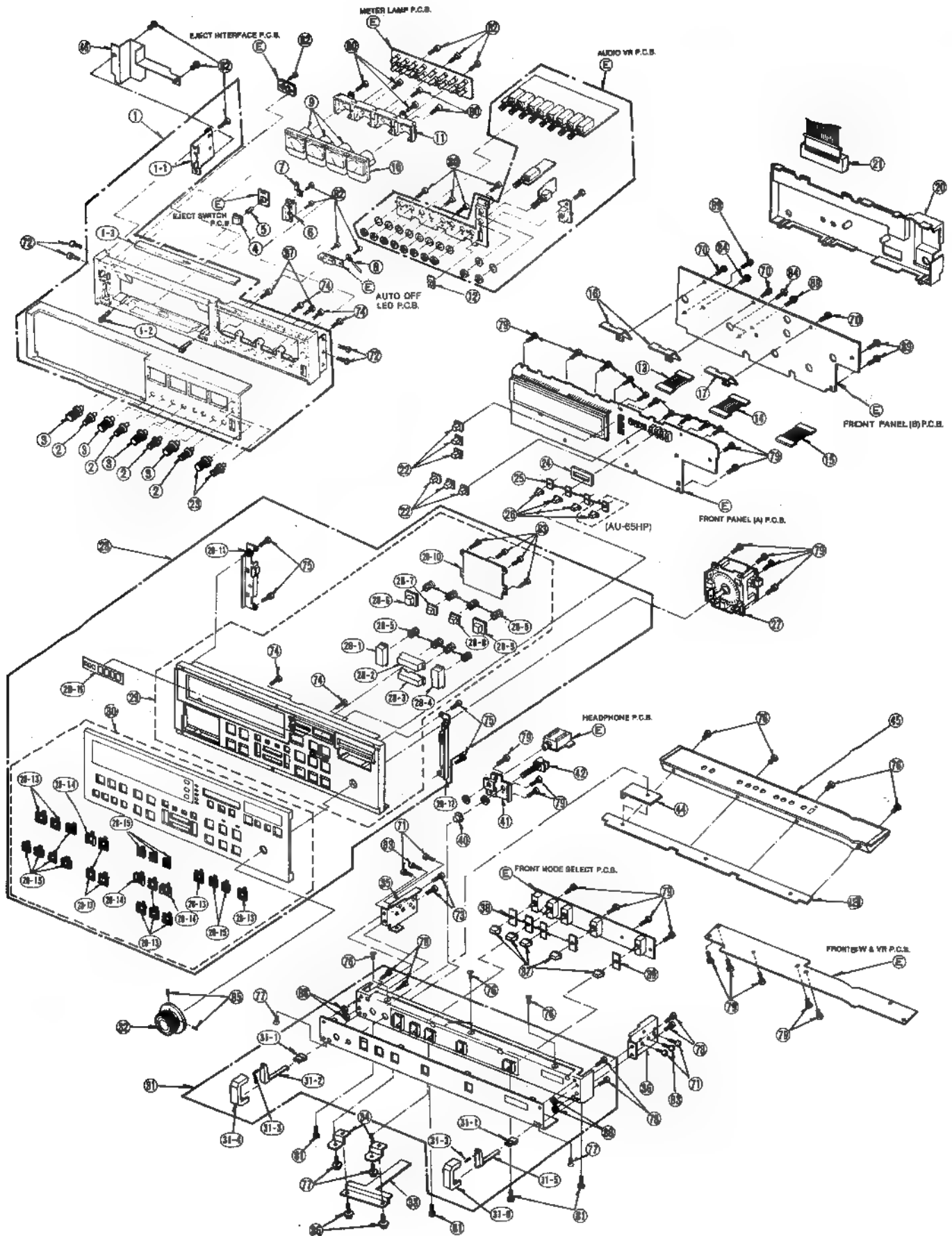
# MECHANICAL CHASSIS ASSEMBLY (4)



## MECHANICAL CHASSIS ASSEMBLY (4)

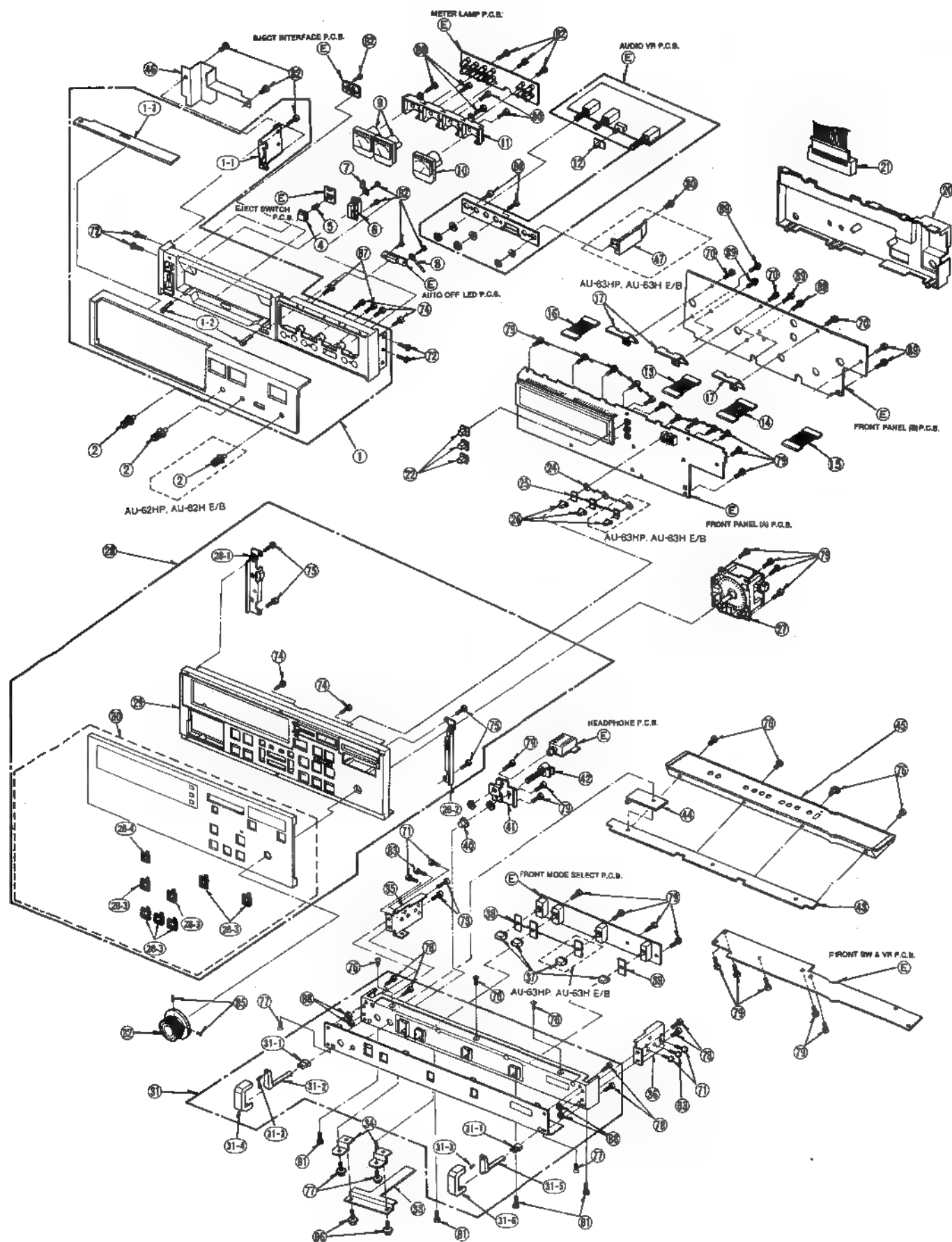
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# FRONT PANEL ASSEMBLY (AU-65H)



[illegible]141

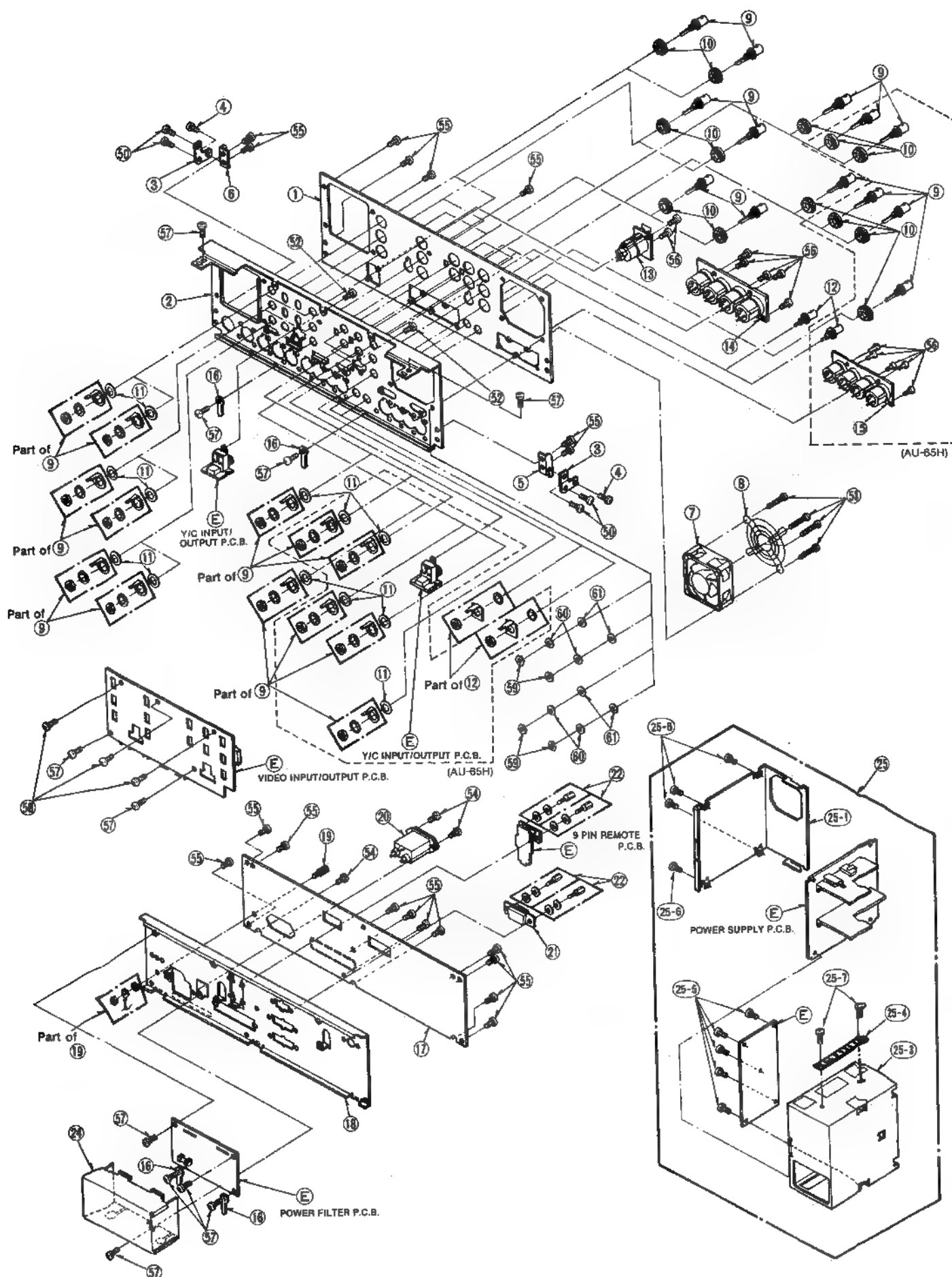
# FRONT PANEL ASSEMBLY (AU-63H, AU-62H)



# FRONT PANEL ASSEMBLY (AU-63H, AU-62H)

| Ref. No. | Part No.     | Part Name & Description    | Pcs | Remarks        | Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|----------|--------------|----------------------------|-----|----------------|----------|----------|-------------------------|-----|---------|
| 1        | VYP3221      | UPPER FRONT PANEL (1) UNIT | 1   | AU-63H         | 88       | DNG3ES   | NUT                     | 4   |         |
| 1        | VYP3134      | UPPER FRONT PANEL (1) UNIT | 1   | AU-62H         | 89       | DTV4+20G | SCREW                   | 6   |         |
| 1-1      | VMP1006      | GND ANGLE                  | 1   |                |          |          |                         |     |         |
| 1-2      | VGK1511      | CASSETTE GUIDE             | 2   |                |          |          |                         |     |         |
| 1-3      | VMP0830      | FRONT (U) PROTECTOR ANGLE  | 1   |                |          |          |                         |     |         |
| 2        | VXU0768      | VR KNOB (S)                | 3   | 2pcs: AU-63H   |          |          |                         |     |         |
| 4        | VGU3394      | EJECT BUTTON               | 1   |                |          |          |                         |     |         |
| 5        | VMB1730      | EJECT BUTTON SPRING        | 1   |                |          |          |                         |     |         |
| 6        | EST15367S    | POWER SWITCH               | 1   | AU-63H, AU-62H |          |          |                         |     |         |
| 7        | VMP1008      | EJECT SWITCH ANGLE         | 1   |                |          |          |                         |     |         |
| 8        | VJR3         | CLUMPER                    | 1   |                |          |          |                         |     |         |
| 9        | VSD0101      | AUDIO METER                | 2   |                |          |          |                         |     |         |
| 10       | VSD0112      | TRACKING METER             | 1   |                |          |          |                         |     |         |
| 11       | VQ01051      | METER COVER                | 1   |                |          |          |                         |     |         |
| 12       | VGU2085      | SWITCH KNOB                | 1   |                |          |          |                         |     |         |
| 13       | VEES375      | CONNECTOR CABLE            | 1   |                |          |          |                         |     |         |
| 14       | VEES374      | CONNECTOR CABLE            | 1   |                |          |          |                         |     |         |
| 15       | VEES373      | CONNECTOR CABLE            | 1   |                |          |          |                         |     |         |
| 16       | VEES376      | CONNECTOR CABLE            | 1   |                |          |          |                         |     |         |
| 17       | VMP1926      | P.C.B. SUPPORT ANGLE (B)   | 3   |                |          |          |                         |     |         |
| 20       | VM21160      | FRONT BOARD COVER          | 1   |                |          |          |                         |     |         |
| 21       | VE00628      | 20P FLAT CABLE             | 1   |                |          |          |                         |     |         |
| 22       | VGU4359      | RESET BUTTON               | 3   |                |          |          |                         |     |         |
| 24       | VXK1072      | SLIDE SWITCH SPACER        | 3   |                |          |          |                         |     |         |
| 25       | VGM0520      | SWITCH COVER               | 3   |                |          |          |                         |     |         |
| 26       | VGU2089      | SLIDE SWITCH KNOB          | 3   |                |          |          |                         |     |         |
| 27       | VSR0083      | SEARCH DIAL                | 1   |                |          |          |                         |     |         |
| 28       | VYP3528      | FRONT PANEL (M) 1 UNIT     | 1   |                |          |          |                         |     |         |
| 28-1     | VMP0562      | PANEL HOLDER ANGLE (L)     | 1   |                |          |          |                         |     |         |
| 28-2     | VMP0561      | PANEL HOLDER ANGLE (R)     | 1   |                |          |          |                         |     |         |
| 28-3     | VGK1595      | SWITCH GUARD               | 7   |                |          |          |                         |     |         |
| 28-4     | VGK1512      | SWITCH GUARD               | 1   |                |          |          |                         |     |         |
| 29       | VYP2138      | FRONT PANEL (M) 2 UNIT     | 1   |                |          |          |                         |     |         |
| 30       | VYP3527      | FRONT ALUMINUM PANEL UNIT  | 1   |                |          |          |                         |     |         |
| 31       | VYP4049      | CONTROL PANEL (1) UNIT     | 1   | AU-63H         |          |          |                         |     |         |
| 31       | VYP4048      | CONTROL PANEL (1) UNIT     | 1   | AU-62H         |          |          |                         |     |         |
| 31-1     | VGP0147      | HANDLE COVER               | 2   |                |          |          |                         |     |         |
| 31-2     | VNL1657      | LOCK RELEASE LEVER (L)     | 1   |                |          |          |                         |     |         |
| 31-3     | VMB1333      | SPRING                     | 2   |                |          |          |                         |     |         |
| 31-4     | VMD0111      | HANDLE (L)                 | 1   |                |          |          |                         |     |         |
| 31-5     | VNL1656      | LOCK RELEASE LEVER (R)     | 1   |                |          |          |                         |     |         |
| 31-6     | VMD0110      | HANDLE (R)                 | 1   |                |          |          |                         |     |         |
| 32       | VXU0767      | SEARCH DIAL KNOB UNIT      | 1   |                |          |          |                         |     |         |
| 35       | VMP1057      | RAIL HOLDER ANGLE (L)      | 1   |                |          |          |                         |     |         |
| 36       | VMP1056      | RAIL HOLDER ANGLE (R)      | 1   |                |          |          |                         |     |         |
| 37       | VGU2080      | SWITCH KNOB                | 4   | 3pcs: AU-62H   |          |          |                         |     |         |
| 38       | VM20655      | SWITCH SHEET               | 3   | 2pcs: AU-62H   |          |          |                         |     |         |
| 39       | VM21194      | SWITCH SHEET               | 1   |                |          |          |                         |     |         |
| 40       | VGU3121      | HEADPHONE VR KNOB          | 1   |                |          |          |                         |     |         |
| 41       | VMP0589      | HEADPHONE MOUNT ANGLE      | 1   |                |          |          |                         |     |         |
| 42       | BAGCOMP15A14 | HEADPHONE VOLUME           | 1   |                |          |          |                         |     |         |
| 43       | VMP0587      | PANEL HOLDER ANGLE         | 1   |                |          |          |                         |     |         |
| 44       | VMP0932      | GND ANGLE                  | 1   |                |          |          |                         |     |         |
| 45       | VYP3531      | CONTROL PANEL (2) UNIT     | 1   |                |          |          |                         |     |         |
| 46       | VM21637      | AC SWITCH BARRIER          | 1   |                |          |          |                         |     |         |
| 47       | VMP2910      | VR P.C.B. HOLDER ANGLE     | 1   | AU-63H         |          |          |                         |     |         |
|          |              |                            |     |                |          |          |                         |     |         |
|          |              |                            |     |                |          |          |                         |     |         |
| 70       | XSB3+5S      | SCREW                      | 3   |                |          |          |                         |     |         |
| 71       | XSB3+6S      | SCREW                      | 4   |                |          |          |                         |     |         |
| 72       | XSB3+8F2S    | SCREW                      | 4   |                |          |          |                         |     |         |
| 73       | XSB3+8S      | SCREW                      | 4   |                |          |          |                         |     |         |
| 74       | XSN3+6S      | SCREW                      | 1   |                |          |          |                         |     |         |
| 75       | XSN3+8S      | SCREW                      | 4   |                |          |          |                         |     |         |
| 76       | XSS3+6PCS    | SCREW                      | 7   |                |          |          |                         |     |         |
| 78       | XSS3+10S     | SCREW                      | 4   |                |          |          |                         |     |         |
| 79       | XTH4+10G     | SCREW                      | 28  |                |          |          |                         |     |         |
| 80       | XTH4+10J     | SCREW                      | 8   |                |          |          |                         |     |         |
| 81       | XTS3+8GFC    | SCREW                      | 4   |                |          |          |                         |     |         |
| 82       | XTV3+8J      | SCREW                      | 11  |                |          |          |                         |     |         |
| 83       | XTV3+10J     | SCREW                      | 2   |                |          |          |                         |     |         |
| 85       | XLEV3W5 FPS  | REX SCREW                  | 2   |                |          |          |                         |     |         |
| 87       | XON3+CL8S    | SCREW                      | 2   |                |          |          |                         |     |         |

# REAR JACK PANEL ASSEMBLY





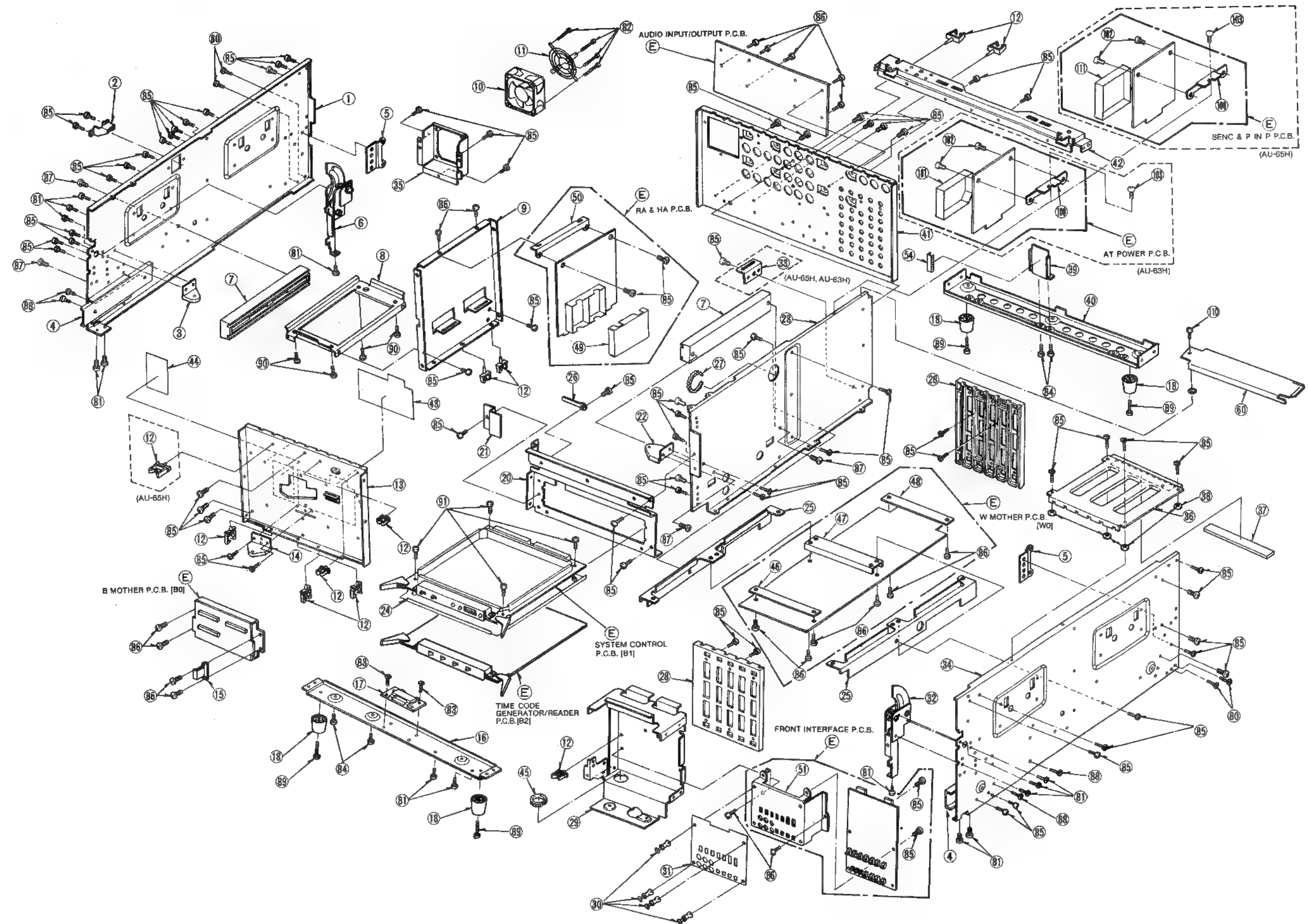
## REAR JACK PANEL ASSEMBLY

| Ref.No. | Part No.   | Part Name & Description | Pcs | Remarks              |
|---------|------------|-------------------------|-----|----------------------|
| 1       | VGH3039    | JACK NAME PLATE (UPPER) | 1   | AU-65H               |
| 1       | VGH3068    | JACK NAME PLATE (UPPER) | 1   | AU-63H, AU-62H       |
| 2       | VJH0583    | JACK PLATE (UPPER)      | 1   |                      |
| 3       | VMP1007    | JACK ROTARY PLATE       | 2   |                      |
| 4       | VHD0325    | JACK ANGLE SCREW        | 2   |                      |
| 5       | VMP0994    | JACK ROTARY ANGLE (L)   | 1   |                      |
| 6       | VMP0960    | JACK ROTARY ANGLE (R)   | 1   |                      |
| 7       | VRF0061    | FUN MOTOR               | 1   |                      |
| 8       | VGF0409    | FUN MOTOR COVER         | 1   |                      |
| 9       | VJS1087    | BNC CONNECTOR           | 13  | 8pcs: AU-63H, AU-62H |
| 10      | VM20631    | BNC NUT                 | 13  | 8pcs: AU-63H, AU-62H |
| 11      | VM20630    | WASHER                  | 13  | 8pcs: AU-63H, AU-62H |
| 12      | VJS2525    | BNC CONNECTOR           | 1   |                      |
| 13      | VGP1894    | XLR CONNECTOR           | 1   |                      |
| 14      | MJP2524    | XLR (4PC) CONNECTOR     | 1   |                      |
| 15      | VJS2525    | XLR (4PC) CONNECTOR     | 1   | AU-65H               |
| 16      | VJR3       | CLUMPER                 | 4   |                      |
| 17      | VGH3045    | JACK NAME PLATE (LOWER) | 1   |                      |
| 18      | VJH0584    | JACK PLATE (LOWER)      | 1   |                      |
| 19      | VJH0082    | GND TERMINAL            | 1   |                      |
| 20      | VJP0083    | AC INLET                | 1   |                      |
| 21      | VEE6377    | 15P REMOTE CONNECTOR    | 1   |                      |
| 22      | VX00102    | HEX A BASS              | 4   |                      |
| 24      | VM21597    | POWER FILTER COVER      | 1   |                      |
| 25      | VYK3004    | POWER UNIT              | 1   | NTSC                 |
| 25      | VYK3637    | POWER UNIT              | 1   | PAL                  |
| 25-1    | VMP2696    | COVER                   | 1   |                      |
| 25-3    | VMP2696    | FRAME                   | 1   |                      |
| 25-4    | VJH0230    | HANDLE                  | 1   |                      |
| 25-5    | XJTV3-K8S  | SCREW                   | 4   |                      |
| 25-6    | XJTV3-8F   | SCREW                   | 4   |                      |
| 25-7    | XJTM-F8S   | SCREW                   | 2   |                      |
| 50      | XJTV3-C5S  | SCREW                   | 4   |                      |
| 52      | XSN3-6FZS  | SCREW                   | 2   |                      |
| 53      | XSM4-35PCS | SCREW                   | 4   |                      |
| 54      | XSB3-8FZS  | SCREW                   | 3   |                      |
| 55      | XJB3-6FY2  | SCREW                   | 14  |                      |
| 56      | XJN26-6FTY | SCREW                   | 12  |                      |
| 57      | XJTV3-6F   | SCREW                   | 10  |                      |
| 58      | XJYE3-8F8  | SCREW                   | 3   |                      |
| 59      | XJG4ES     | NUT                     | 4   |                      |
| 60      | XJW4B      | SPRING WASHER           | 4   |                      |
| 61      | XJG4       | WASHER                  | 4   |                      |

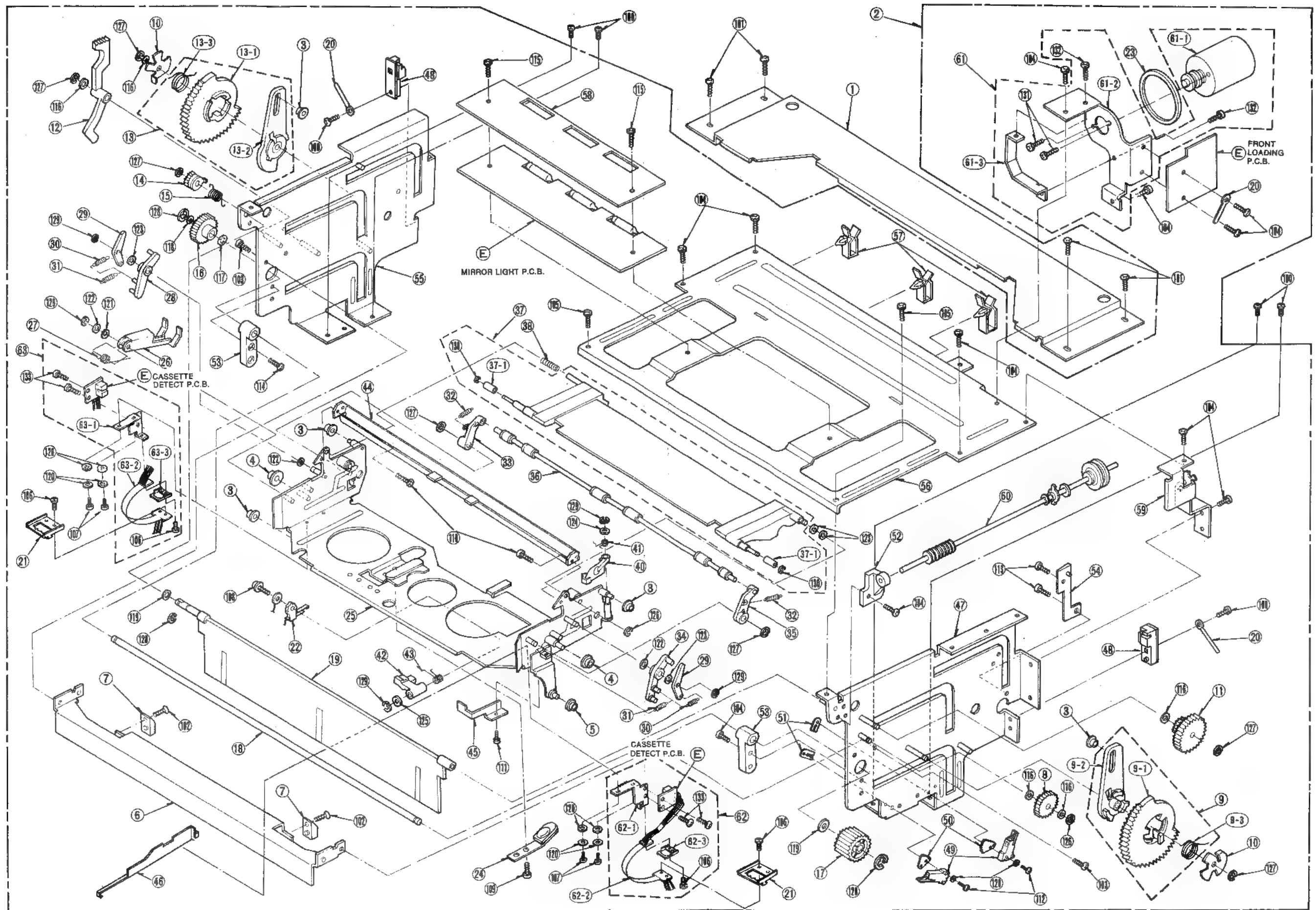
# CHASSIS FRAME ASSEMBLY

| Ref.No. | Part No.    | Part Name & Description         | Pcs | Remarks       | Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---------|-------------|---------------------------------|-----|---------------|---------|----------|-------------------------|-----|---------|
| 1       | VMP2607     | SIDE FRAME (L)                  | 1   |               |         |          |                         |     |         |
| 2       | VMP0842     | TOP MOUNT PLATE (L)             | 1   |               |         |          |                         |     |         |
| 3       | VMP0616     | CHASSIS FRAME (L)               | 1   |               |         |          |                         |     |         |
| 4       | VYQ0013     | RAIL UNIT                       | 2   |               |         |          |                         |     |         |
| 5       | VMP2616     | JACK MOUNT ANGLE (BOTTOM)       | 2   |               |         |          |                         |     |         |
| 6       | VYQ0252     | ROTARY ANGLE (L) UNIT           | 1   |               |         |          |                         |     |         |
| 7       | VQ02025     | B BOARD GUIDE RAIL              | 2   |               |         |          |                         |     |         |
| 8       | VMP2596     | POWER MOUNT ANGLE               | 1   |               |         |          |                         |     |         |
| 9       | VMP2612     | POWER FRAME                     | 1   |               |         |          |                         |     |         |
| 10      | VRF0061     | FUN MOTOR                       | 1   |               |         |          |                         |     |         |
| 11      | VGF0335     | FUN MOTOR COVER                 | 1   |               |         |          |                         |     |         |
| 12      | VJF0022     | CLUMPER                         | 11  |               |         |          |                         |     |         |
| 13      | VMP2610     | GUIDE FRAME (M)                 | 1   |               |         |          |                         |     |         |
| 14      | VMP0618     | CHASSIS FRAME (M)               | 1   |               |         |          |                         |     |         |
| 15      | VMP2783     | TC BOARD STOPPER ANGLE          | 1   |               |         |          |                         |     |         |
| 16      | VMP2693     | FOOT MOUNT ANGLE                | 1   |               |         |          |                         |     |         |
| 18      | VYQ0586     | FOOT                            | 4   |               |         |          |                         |     |         |
| 20      | VMP2614     | FRONT FRAME                     | 1   |               |         |          |                         |     |         |
| 21      | VMP2598     | P.C.B. MOUNT ANGLE (B)          | 1   |               |         |          |                         |     |         |
| 22      | VMP0617     | CHASSIS FRAME (R)               | 1   |               |         |          |                         |     |         |
| 23      | VMP3676     | CENTER FRAME                    | 1   |               |         |          |                         |     |         |
| 24      | VXA3967     | B P.C.B. SHIELD PLATE           | 1   |               |         |          |                         |     |         |
| 25      | VMP2620     | W MOTHER P.C.B. ANGLE           | 2   |               |         |          |                         |     |         |
| 26      | VJF3        | CLUMPER                         | 1   |               |         |          |                         |     |         |
| 27      | VMD1314M075 | FREE BUSHING                    | 1   |               |         |          |                         |     |         |
| 28      | VQ02024     | W BOARD GUIDE RAIL              | 2   |               |         |          |                         |     |         |
| 29      | VMP2611     | GUIDE FRAME (S)                 | 1   |               |         |          |                         |     |         |
| 30      | VMD0011     | LATCH                           | 4   |               |         |          |                         |     |         |
| 31      | VGR3041     | SUB FRONT PANEL                 | 1   | AU-65H        |         |          |                         |     |         |
| 31      | VGR2550     | SUB FRONT PANEL                 | 1   | AU-63H,AU-62H |         |          |                         |     |         |
| 32      | VYQ0251     | ROTARY ANGLE (R) UNIT           | 1   |               |         |          |                         |     |         |
| 33      | VMP2739     | AT BOARD MOUNT ANGLE (BOTTOM)   | 1   | AU-65H,AU-63H |         |          |                         |     |         |
| 34      | VMP0610     | SIDE FRAME (R)                  | 1   |               |         |          |                         |     |         |
| 35      | VMP2615     | FUN MOTOR MOUNT ANGLE           | 1   |               |         |          |                         |     |         |
| 36      | VMP2594     | TOP MOUNT PLATE (R)             | 1   |               |         |          |                         |     |         |
| 37      | VMD1841     | P.C.B. CUSHION (W)              | 1   |               |         |          |                         |     |         |
| 38      | VMD1558     | WASHER                          | 4   |               |         |          |                         |     |         |
| 39      | VMP0692     | GUIDE FRAME MOUNT ANGLE         | 1   |               |         |          |                         |     |         |
| 40      | VMP0683     | GUIDE FRAME (L2)                | 1   |               |         |          |                         |     |         |
| 41      | VMP2609     | GUIDE FRAME (L)                 | 1   |               |         |          |                         |     |         |
| 42      | VMP1525     | GUIDE FRAME (L) PROTECTOR ANGLE | 1   |               |         |          |                         |     |         |
| 43      | VMD1590     | CUT SHEET (BIG)                 | 1   |               |         |          |                         |     |         |
| 44      | VMD1591     | CUT SHEET (SMALL)               | 1   |               |         |          |                         |     |         |
| 45      | VMD1314M146 | FREE BUSHING                    | 1   |               |         |          |                         |     |         |
| 46      | VMP2617     | W MOTHER P.C.B. ANGLE (F)       | 1   |               |         |          |                         |     |         |
| 47      | VMP2618     | W MOTHER P.C.B. ANGLE (C)       | 1   |               |         |          |                         |     |         |
| 48      | VMP2619     | W MOTHER P.C.B. ANGLE (B)       | 1   |               |         |          |                         |     |         |
| 49      | VSC2341     | SHIELD CASE LID                 | 1   |               |         |          |                         |     |         |
| 50      | VMP0972     | P.C.B. MOUNT ANGLE              | 1   |               |         |          |                         |     |         |
| 51      | VMP2600     | SWITCH ANGLE                    | 1   |               |         |          |                         |     |         |
| 54      | VMD1184     | FREE BUSHING                    | 1   |               |         |          |                         |     |         |
| 60      | VMP3668     | W BOARD HOLD ANGLE              | 1   |               |         |          |                         |     |         |
|         |             |                                 |     |               |         |          |                         |     |         |
|         |             |                                 |     |               |         |          |                         |     |         |
| 80      | XTV3+6F     | SCREW                           | 4   |               |         |          |                         |     |         |
| 81      | XSB3+6S     | SCREW                           | 12  |               |         |          |                         |     |         |
| 82      | XSM4+35PCS  | SCREW                           | 4   |               |         |          |                         |     |         |
| 84      | XTB3+6F     | SCREW                           | 4   |               |         |          |                         |     |         |
| 85      | XTV3+6F     | SCREW                           | 70  |               |         |          |                         |     |         |
| 86      | XTV3+6FR    | SCREW                           | 11  |               |         |          |                         |     |         |
| 87      | XTV3+10J    | SCREW                           | 4   |               |         |          |                         |     |         |
| 88      | XON3+C6S    | SCREW                           | 4   |               |         |          |                         |     |         |
| 89      | XON4+K16S   | SCREW                           | 4   |               |         |          |                         |     |         |
| 90      | XON4+P6S    | SCREW                           | 4   |               |         |          |                         |     |         |
| 91      | XONV3+K6FR  | SCREW                           | 4   |               |         |          |                         |     |         |
| 100     | VMP2738     | HOLDER ANGLE                    | 1   |               |         |          |                         |     |         |
| 101     | VSC2299     | SHIELD COVER                    | 1   |               |         |          |                         |     |         |
| 102     | XTV3+6F     | SCREW                           | 2   |               |         |          |                         |     |         |
| 103     | XTV3+6F     | SCREW                           | 1   |               |         |          |                         |     |         |
| 110     | XTV3+8F     | SCREW                           | 1   |               |         |          |                         |     |         |
| 111     | VSC3486     | SHIELD BOX                      | 1   | AU-65H        |         |          |                         |     |         |

# CHASSIS FRAME ASSEMBLY



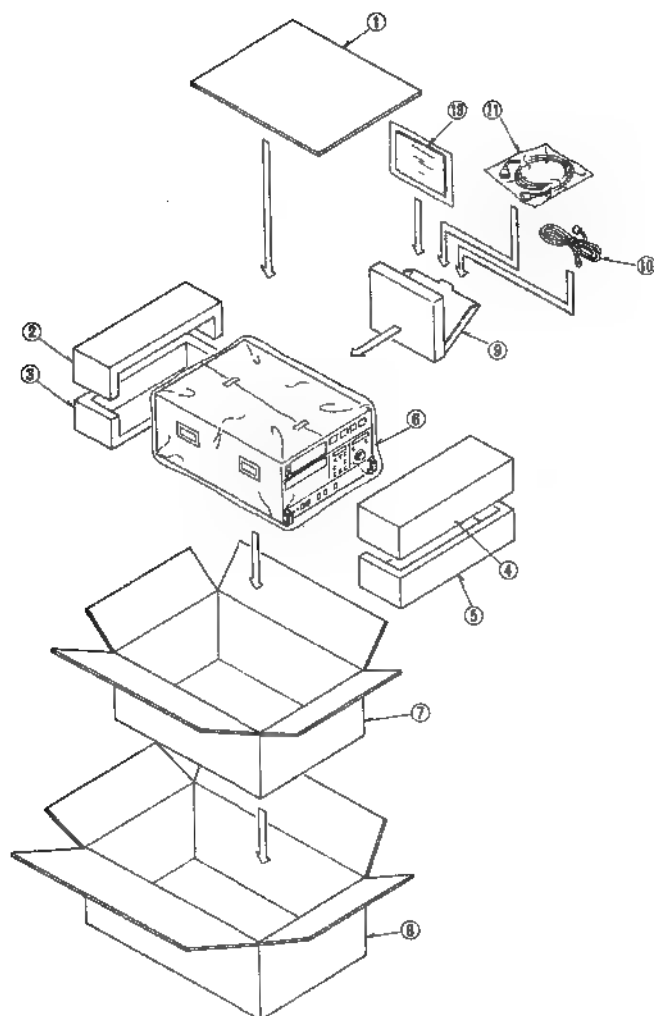
# CASSETTE COMPARTMENT ASSEMBLY



## CASSETTE COMPARTMENT ASSEMBLY

| Ref.No. | Part No. | Part Name & Description    | Pcs | Remarks | Ref.No. | Part No.   | Part Name & Description   | Pcs | Remarks |
|---------|----------|----------------------------|-----|---------|---------|------------|---------------------------|-----|---------|
| 1       | VMA6661  | CARRIAGE MOUNT PLATE       | 1   |         | 63      | VES0352    | CASSETTE DETECT (L) UNIT  | 1   |         |
| 2       | VXA3756  | FRONT LOADING UNIT         | 1   |         | 63-1    | VMA6680    | SENSOR DETECT (L)         | 1   |         |
| 3       | VDPI020  | GUIDE ROLLER (A)           | 5   |         | 63-2    | VJB80099   | FLAT CABLE (L)            | 1   |         |
| 4       | VDPI021  | GUIDE ROLLER (B)           | 2   |         | 63-3    | VMD1382    | FLAT CABLE HOLDER (UPPER) | 1   |         |
| 5       | VDPI022  | GUIDE ROLLER (C)           | 1   |         |         |            |                           |     |         |
| 6       | VMA6639  | FRONT GUIDE ANGLE          | 1   |         |         |            |                           |     |         |
| 7       | VMD1048  | CASSETTE GUIDE             | 1   |         | 100     | XTV3+8F    | SCREW                     | 11  |         |
| 8       | VDO0226  | RELAY GEAR                 | 1   |         | 101     | XYN3+P6S   | SCREW                     | 4   |         |
| 9       | VXL1315  | WIPER (R) UNIT             | 1   |         | 102     | XTS3+6FTZ  | SCREW                     | 11  |         |
| 9-1     | VDO0608  | WIPER GEAR (R)             | 1   |         | 103     | XYN3+C4S   | SCREW                     | 2   |         |
| 9-2     | VML1683  | WIPER ARM (R)              | 1   |         | 104     | XTV3+6F    | SCREW                     | 12  |         |
| 9-3     | VMB1384  | WIPER SPRING (R)           | 1   |         | 105     | XIN3+4F    | SCREW                     | 2   |         |
| 10      | VMD0748  | WIPER SPRING HOLDER        | 2   |         | 106     | XYN2+P5    | SCREW                     | 4   |         |
| 11      | VDO0500  | WORM GEAR                  | 1   |         | 107     | XYN2+C4    | SCREW                     | 3   |         |
| 12      | VML1685  | PANEL OPENER               | 1   |         | 108     | XYN2+C6    | SCREW                     | 1   |         |
| 13      | VXL1922  | WIPER (L) UNIT             | 1   |         | 109     | XYN26+F4FZ | SCREW                     | 1   |         |
| 13-1    | VDO0605  | WIPER GEAR (L)             | 1   |         | 110     | XYN26+C4   | SCREW                     | 2   |         |
| 13-2    | VML2316  | WIPER ARM (L)              | 1   |         | 111     | XYN2+C3    | SCREW                     | 1   |         |
| 13-3    | VMB1385  | WIPER SPRING (L)           | 1   |         | 112     | XSN2+10    | SCREW                     | 2   |         |
| 14      | VDO0231  | PANEL GEAR                 | 1   |         | 113     | XSN2+3     | SCREW                     | 2   |         |
| 15      | VMB1386  | BLINDER PANEL GEAR         | 1   |         | 115     | XST3+4RS   | SCREW                     | 2   |         |
| 16      | VDO0603  | MAIN SHAFT GEAR (L)        | 1   |         | 116     | XWGV4B7G   | WASHER                    | 5   |         |
| 17      | VDO0502  | MAIN SHAFT GEAR (R)        | 1   |         | 117     | XWGV5Y9G   | WASHER                    | 1   |         |
| 18      | NMS3845  | MAIN SHAFT A               | 1   |         | 118     | XWGV5P8G   | WASHER                    | 11  |         |
| 19      | VYP0589  | BLINDER PANEL              | 1   |         | 119     | XWGV5D9G   | WASHER                    | 2   |         |
| 20      | VJR3     | CLAMPER                    | 3   |         | 120     | XWG2       | WASHER                    | 10  |         |
| 21      | VMD1383  | FLAT CABLE HOLDER (LOWER)  | 2   |         | 121     | XWGV3Z6G   | WASHER                    | 1   |         |
| 22      | VSH0026  | LEAF SWITCH                | 1   |         | 122     | XWGV3Y6G   | WASHER                    | 3   |         |
| 23      | VBU0157  | LOADING BELT               | 1   |         | 123     | XWGV3D6G   | WASHER                    | 4   |         |
| 24      | VXL1626  | CASSETTE KEEPER UNIT       | 1   |         | 124     | XME26      | WASHER                    | 11  |         |
| 25      | VXA2993  | CASSETTE HOLDER            | 1   |         | 125     | XWGV3D5G   | WASHER                    | 1   |         |
| 26      | VXL2065  | CASSETTE OPENER UNIT       | 1   |         | 126     | XUC25FP    | E-RING                    | 2   |         |
| 27      | VMB1547  | CASSETTE SPRING            | 1   |         | 127     | XUC3FP     | E-RING                    | 8   |         |
| 28      | VML2151  | KICK LEVER (L) UNIT        | 1   |         | 128     | XUC4FP     | E-RING                    | 3   |         |
| 29      | VML1681  | KICK DRIVE LEVER           | 2   |         | 129     | XUC2FP     | E-RING                    | 11  |         |
| 30      | VMB1380  | KICK DRIVE LEVER SPRING    | 2   |         | 130     | XUC15FP    | E-RING                    | 2   |         |
| 31      | VMB1381  | KICK LEVER SPRING          | 2   |         | 131     | XYN3+C4    | SCREW                     | 2   |         |
| 32      | VMB1382  | PRESS LEVER SPRING         | 2   |         | 132     | XTV26+5F   | SCREW                     | 2   |         |
| 33      | VML2149  | PRESS LEVER (L)            | 1   |         | 133     | XTV26+4F   | SCREW                     | 4   |         |
| 34      | VML2150  | KICK LEVER (R) UNIT        | 1   |         |         |            |                           |     |         |
| 35      | VML2148  | PRESS LEVER (R)            | 1   |         |         |            |                           |     |         |
| 36      | VXJ0038  | PRESS ROLLER SHAFT UNIT    | 1   |         |         |            |                           |     |         |
| 37      | VXA2322  | MIRROR UNIT                | 1   |         |         |            |                           |     |         |
| 37-1    | VDPI023  | MIRROR ROLLER              | 2   |         |         |            |                           |     |         |
| 38      | VMB1399  | MIRROR SPRING              | 11  |         |         |            |                           |     |         |
| 40      | VXL1278  | RELEASE LEVER UNIT         | 1   |         |         |            |                           |     |         |
| 41      | VMB1383  | RELEASE LEVER SPRING       | 1   |         |         |            |                           |     |         |
| 42      | VML1845  | CASSETTE DETECT LEVER      | 1   |         |         |            |                           |     |         |
| 43      | VMB1548  | CASSETTE DETECT SPRING     | 1   |         |         |            |                           |     |         |
| 44      | VMA7000  | PRESS ROLLER SHAFT STOPPER | 1   |         |         |            |                           |     |         |
| 45      | VMA7172  | FIXING ANGLE               | 1   |         |         |            |                           |     |         |
| 46      | VMD1109  | CASSETTE GUIDE (R)         | 1   |         |         |            |                           |     |         |
| 47      | VXA2317  | RIGHT SIDE PLATE (1) UNIT  | 1   |         |         |            |                           |     |         |
| 48      | VEK2414  | PHOTO TR UNIT              | 2   |         |         |            |                           |     |         |
| 49      | VSM0048  | SWITCH                     | 2   |         |         |            |                           |     |         |
| 50      | VMA6663  | SWITCH ADJUSTMENT PLATE    | 2   |         |         |            |                           |     |         |
| 51      | VMA6664  | SWITCH MOUNT PLATE         | 2   |         |         |            |                           |     |         |
| 52      | VMD0747  | SHAFT BEARING              | 1   |         |         |            |                           |     |         |
| 53      | VMD0746  | MAIN SHAFT BEARING         | 2   |         |         |            |                           |     |         |
| 54      | VMA6637  | RELEASE LEVER HOLDER       | 1   |         |         |            |                           |     |         |
| 55      | VXA2319  | LEFT SIDE PLATE            | 1   |         |         |            |                           |     |         |
| 56      | VMA6643  | TOP PLATE                  | 1   |         |         |            |                           |     |         |
| 57      | VGO0107  | MINI-CLAMPER               | 3   |         |         |            |                           |     |         |
| 58      | VMD0729  | MIRROR LIGHT P.C.B. COVER  | 1   |         |         |            |                           |     |         |
| 59      | VMA6662  | WORM SHAFT MOUNT PLATE     | 1   |         |         |            |                           |     |         |
| 60      | VXJ0073  | WORM SHAFT (1) UNIT        | 1   |         |         |            |                           |     |         |
| 61      | VMD0265  | FRONT LOADING MOTOR UNIT   | 1   |         |         |            |                           |     |         |
| 61-1    | VMD0228  | MOTOR UNIT                 | 1   |         |         |            |                           |     |         |
| 61-2    | VMA6649  | LOADING MOTOR MOUNT ANGLE  | 1   |         |         |            |                           |     |         |
| 61-3    | VMA6794  | BELT COVER                 | 1   |         |         |            |                           |     |         |
| 62      | VES0351  | CASSETTE DETECT (R) UNIT   | 1   |         |         |            |                           |     |         |
| 62-1    | VMA6879  | SENSOR ANGLE (R)           | 1   |         |         |            |                           |     |         |
| 62-2    | VJB80098 | FLAT CABLE (R)             | 1   |         |         |            |                           |     |         |
| 62-3    | VMD1382  | FLAT CABLE HOLDER (UPPER)  | 1   |         |         |            |                           |     |         |

## PACKING



## PACKING

| Ref.No. | Part No. | Part Name & Description             | Pcs | Remarks              |
|---------|----------|-------------------------------------|-----|----------------------|
| 1       | VPN2698  | TOP PAD                             | 1   |                      |
| 2       | VPN2665  | UPPER REAR CUSHION                  | 1   |                      |
| 3       | VPN2697  | LOWER REAR CUSHION                  | 1   |                      |
| 4       | VPN2664  | UPPER FRONT CUSHION                 | 1   |                      |
| 5       | VPN2696  | LOWER FRONT CUSHION                 | 1   |                      |
| 6       | VPP0296  | COVER                               | 1   |                      |
| 7       | VPG5146  | PACKING CASE (IN)                   | 1   |                      |
| 8       | VPG5417  | PACKING CASE (OUT)                  | 1   |                      |
| 9       | VPK1243  | ACCESSORIES BOX                     | 1   |                      |
| 10      | VJA0173  | POWER CODE (E)                      | 1   | AU-65HE/63HE/62HE    |
| 10      | VJA0172  | POWER CODE (B)                      | 1   | AU-65HB/63HB/62HB    |
| 10      | VJA0258  | POWER CODE (A)                      | 1   | AU-65HA/63HA/62HA    |
| 11      | VJA0716  | 9P CABLE                            | 1   |                      |
| 13      | VQT4633  | OPERATING INSTRUCTIONS<br>(ENGLISH) | 1   | AU-65HE, AU-65HB     |
| 13      | VQT4655  | OPERATING INSTRUCTIONS<br>(GERMAN)  | 1   | AU-65HE              |
| 13      | VQT4586  | OPERATING INSTRUCTIONS<br>(FRENCH)  | 1   | AU-65HE              |
| 13      | VQT4656  | OPERATING INSTRUCTIONS<br>(SPANISH) | 1   | AU-65HE              |
| 13      | VQT4641  | OPERATING INSTRUCTIONS<br>(ENGLISH) | 1   | AU-63HE/B, AU-62HE/B |
| 13      | VQT4642  | OPERATING INSTRUCTIONS<br>(GERMAN)  | 1   | AU-63HE, AU-62HE     |
| 13      | VQT4587  | OPERATING INSTRUCTIONS<br>(FRENCH)  | 1   | AU-63HE, AU-62HE     |
| 13      | VQT4658  | OPERATING INSTRUCTIONS<br>(SPANISH) | 1   | AU-63HE, AU-62HE     |

## SERVICING FIXTURES & TOOLS LIST

| Ref.No. | Part No.  | Part Name & Description   | Pcs            | Remarks |
|---------|-----------|---------------------------|----------------|---------|
|         | VFK0293   | POST DRIVER               | 1              |         |
|         | VFK0357   | ECCENTRIC DRIVER (1)      | 1              |         |
|         | VFK0358   | ECCENTRIC DRIVER (2)      | 1              |         |
|         | VFK0359   | ECCENTRIC DRIVER (3)      | 1              |         |
|         | VFK0446   | FINE ADJ. DRIVER          | 1              |         |
|         | VFK0363   | POST HEIGHT FIXTURE       | 1              |         |
|         | VFK066    | TENSION GAUGE             | 1              |         |
|         | VFK0133   | DIAL TORQUE GAUGE         | 1              |         |
|         | VFK0134   | ADAPTOR FOR VFK0133       | 1              |         |
|         | VFK0325   | DIAL GAUGE                | 1              |         |
|         | VFK0287   | HEAD ADJ. PLATE           | 1              |         |
|         | VFK0296   | RT CAP SPACER             | 1              |         |
|         | VFK0326   | HEX WRENCH SET            | 1              |         |
|         | VFK0343   | CHECK LIGHT               | 1              |         |
|         | VFK027    | HEAD CLEANING STICK       | 1              |         |
|         | MOR265    | MORLYTON GREASE (BLACK)   | 1              |         |
|         | VFK0749   | ROIRAL GREASE (WHITE)     | 1              |         |
|         | VFK0361   | DUMMY PLUG (1)            | 1              |         |
|         |           | LARGE CASSETTE SIMULATION |                |         |
|         | VFK0362   | DUMMY PLUG (2)            | 1              |         |
|         |           | SMALL CASSETTE SIMULATION |                |         |
|         | VFK0352   | MECH NEUTRAL ADJ. PLATE   | 1              |         |
|         | VFK0335   | RETAINING RUBBER          | 1              |         |
|         | VFK0473   | PHILIPS DRIVER (MAGNET)   | 1              |         |
|         | VFK0337   | PHILIPS DRIVER (LARGE)    | 1              |         |
|         | VFK0366   | PHILIPS DRIVER (SMALL)    | 1              |         |
|         | VFK0367   | SCREW DRIVER              | 1              |         |
|         | VFK0338   | TRIMMER ADJ. DRIVER       | 1              |         |
|         | VFK0368   | CORE ADJ. DRIVER          | 1              |         |
|         | VFK0369   | TWEEZERS                  | 1              |         |
|         | VFK0370   | NUT DRIVER (5.5m/m)       | 1              |         |
|         | VFK0371   | RADIO PRIER               | 1              |         |
|         | VFK0372   | CUTTER PRIER              | 1              |         |
|         | VFK0355A  | TOOL BOX CASE             | 1              |         |
|         | VFK0438   | P2 POST ADJ. FIXTURE      | 1              |         |
|         | VFK0470   | EXTENSION CABLE SET       | 1              |         |
|         | VFK089EAG | ALIGNMENT TAPE (NTSC)     | 1 (LARGE SIZE) |         |
|         | VFK0189EG | ALIGNMENT TAPE (PAL)      | 1 (LARGE SIZE) |         |
|         | VFK0132   | BACK TENSION METER        | 1              |         |
|         | VFK0600   | M EXTENDER                | 1              |         |
|         | VFK0601   | B EXTENDER                | 1              |         |
|         | VFK0676   | NUT DRIVER (7m/m)         | 1              |         |

# Technical Bulletin

## Supplement to the Service Manual

MII Video Product

### Subject : Correction in Part Number List

Please use this supplement together with the Service Manual as follows :

| Model No. | Bulletin No. | Order No.   | Effective from   |
|-----------|--------------|-------------|------------------|
| AU-65E    | 160          | VQS0264     | First Production |
| AU-665E   | 138          | VQS0270     | First Production |
| AU-65HE   | 96           | VSD9204M501 | First Production |
| AU-66HE   | 70           | VSD9208M502 | First Production |

### FRONT PANEL ASSEMBLY

#### Interchangeability Code (I/C)

|   |   |
|---|---|
| A | Original or new parts may <input type="checkbox"/> used in early or late production set. Use original parts until exhausted, then stock new parts.  |
| B | Original parts may be used in early production sets only. New parts may <input type="checkbox"/> used in early or late production sets. Use original parts possible then stock new parts. |
| C | New parts only may be used in early or late production sets.  |
| D | Original parts may be used in early or late production sets only. New parts may be used in late production sets only. Stock both original and new parts.                                  |
| E | Others  |

#### Part Number

| Ref. No. | Original Part No. | New Part No. | Part Name & Descriptions | Pcs | I/C | Remarks |
|----------|-------------------|--------------|--------------------------|-----|-----|---------|
| 28-2     | VGU4116           | VGU4115      | EDIT SET BUTTON          | 1   |     |         |
| 28-2     | VGU4115           | VGU4116      | GO-TO BUTTON             | 1   |     |         |

TZZ-0070

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## MODULES

- Block Diagrams
- Schematic Diagrams
- Printed Circuit Boards

This section provides the block diagrams, schematic diagrams and printed circuit boards.

### N o t e :

1. Do not use the part numbers shown on the schematic diagram or P.C.Board layout for ordering.  
The correct part number for ordering is shown in the Exploded View/Parts List section.
2. Unless otherwise specified, all resistors are in OHMS, M = 1,000 OHMS, all capacitors are in MICROFARADS (uF), P = uuF.
3. The foil patterns on the P.C.Board layout, printed with the blue color is the component side.
4. Please refer to the Electrical Parts List for the value and existance of component parts on the P.C.Board.

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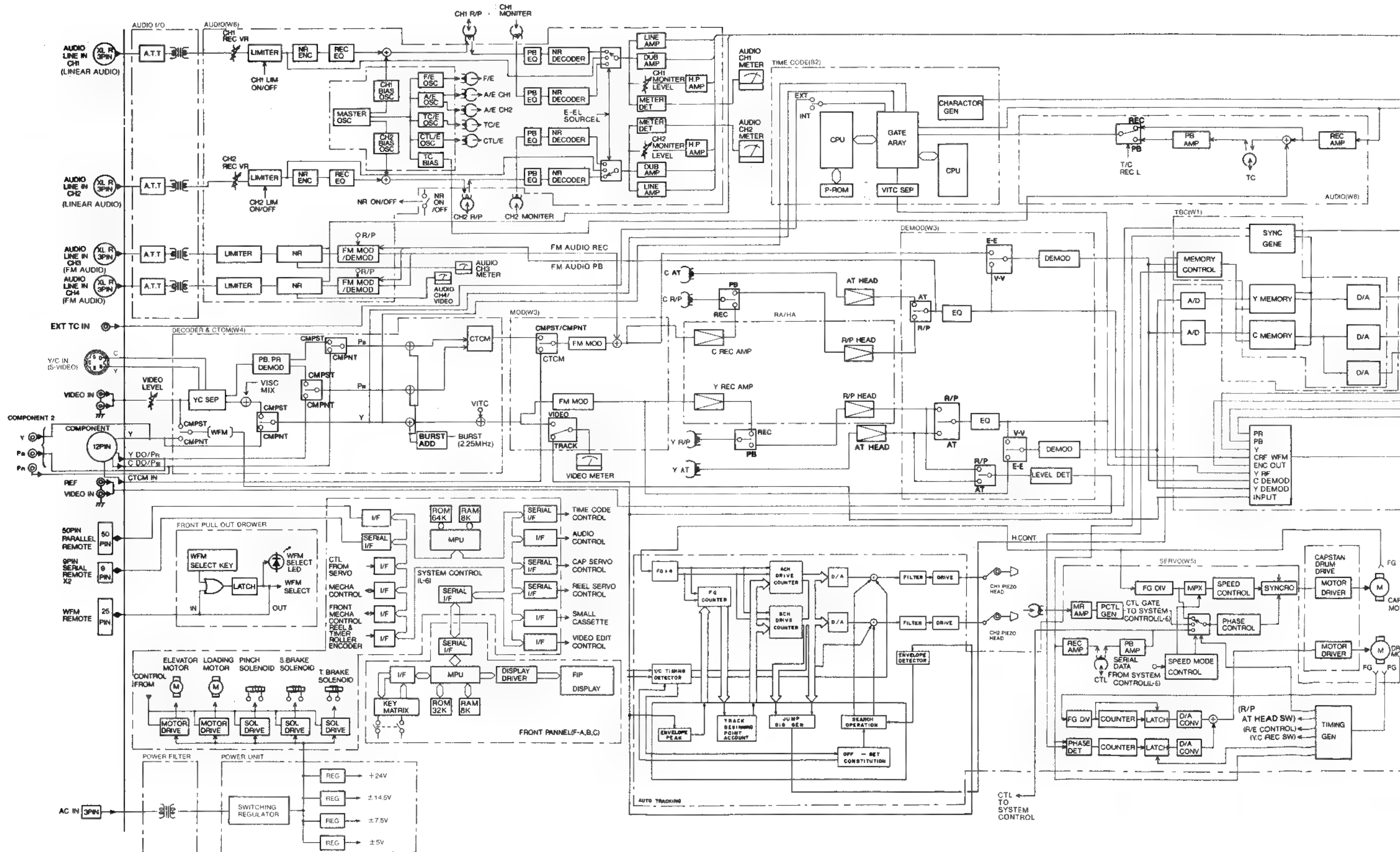
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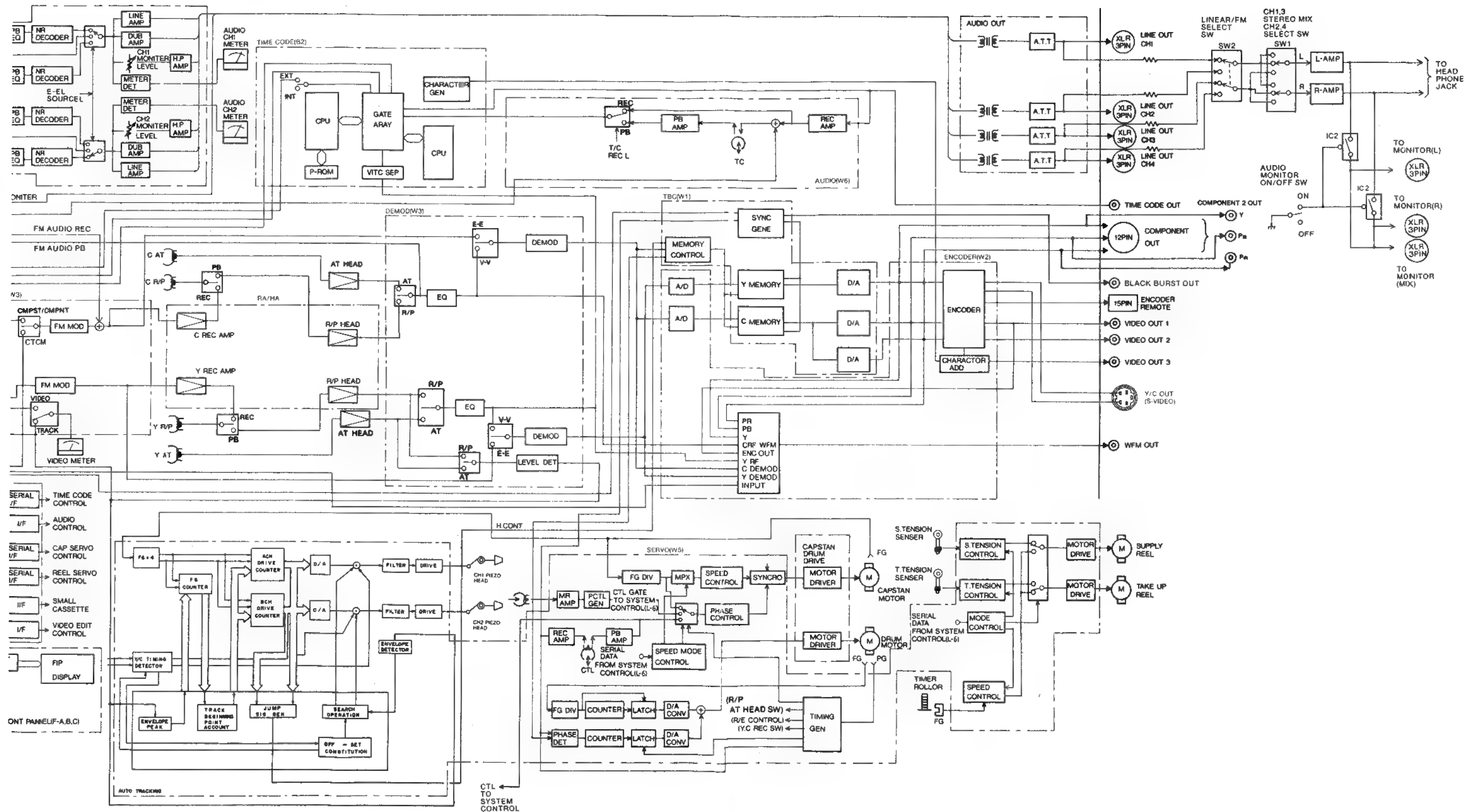
## P.C.BOARD LIST

| P.C.BOARD NAME              | VEP NUMBER<br>(AU-65 NTSC) | VEP NUMBER<br>(AU-63 NTSC) | VEP NUMBER<br>(AU-62 NTSC) | VEP NUMBER<br>(AU-66S NTSC) | VEP NUMBER<br>(AU-65 PAL) | VEP NUMBER<br>(AU-63 PAL) | VEP NUMBER<br>(AU-62 PAL) |
|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|---------------------------|---------------------------|---------------------------|
| 1. W0 MOTHER 1              | VEP80548A                  | VEP80548D                  | VEP80548C                  | VEP80548B                   | VEP80548A                 | VEP80548D                 | VEP80548C                 |
| 2. W1 TBC & SYNC GEN        | VEP88062A                  | VEP88062A                  | VEP88062A                  | VEP88077A                   | VEP88062C                 | VEP88062C                 | VEP88062C                 |
| 3. W1 SUB                   | -----                      | -----                      | -----                      | VEP80666A                   | -----                     | -----                     | -----                     |
| 4. W2 ENCODER               | VEP88063A                  | VEP88063A                  | VEP88063A                  | VEP88063B                   | VEP88063C                 | VEP88063C                 | VEP88063C                 |
| 5. W2 SUB 9BIT A/D          | -----                      | -----                      | -----                      | VEP80569A                   | VEP80632A                 | VEP80632A                 | VEP80632                  |
| 6. W3 MOD & DEMOD           | VEP83098A                  | VEP83098A                  | VEP83098A                  | VEP83098B                   | VEP83098E                 | VEP83098F                 | VEP83098G                 |
| 7. W3 SUB Y DO BLK          | -----                      | -----                      | -----                      | VEP80646A                   | -----                     | -----                     | -----                     |
| 8. W3 SUB C DO BLK          | -----                      | -----                      | -----                      | VEP80647A                   | -----                     | -----                     | -----                     |
| 9. W3 SUB                   | -----                      | -----                      | -----                      | -----                       | VEP80667                  | -----                     | -----                     |
| 10. W4 DEC & CTCM           | VEP83099A                  | -----                      | -----                      | VEP83099A                   | VEP83099B                 | -----                     | -----                     |
| 11. W5 SERVO                | VEP82061A                  | VEP82061D                  | VEP82061C                  | VEP82061B                   | VEP82061E                 | VEP82061F                 | VEP82061E                 |
| 12. W6 AUDIO                | VEP84095A                  | VEP84095C                  | VEP84095C                  | VEP84095B                   | VEP84095D                 | VEP84095E                 | VEP84095E                 |
| 13. W6 SUB SPOT ERASE       | VEP80635A                  | -----                      | -----                      | VEP80664A                   | -----                     | -----                     | -----                     |
| 14. W6 SUB TC TRAP          | -----                      | -----                      | -----                      | VEP80635A                   | VEP80635A                 | -----                     | -----                     |
| 15. B0 MOTHER 2             | VEP80549A                  | VEP80549B                  | VEP80549C                  | VEP80549B                   | VEP80549A                 | VEP80549B                 | VEP80549A                 |
| 16. B1 SYSTEM CONTROL       | VEP86088A                  | VEP86088D                  | VEP86088C                  | VEP86088B                   | VEP86088E                 | VEP86088F                 | VEP86088M                 |
| 17. B2 (TC & 8B)            | -----                      | -----                      | -----                      | VEP86089B                   | -----                     | -----                     | -----                     |
| 18. AT H.A                  | -----                      | -----                      | -----                      | VEP85018A                   | -----                     | -----                     | -----                     |
| 19. AT POWER                | -----                      | VEP82062A                  | -----                      | VEP82062A                   | -----                     | VEP82062A                 | -----                     |
| 20. AUDIO INPUT SW          | -----                      | -----                      | -----                      | VEP84094B                   | -----                     | -----                     | -----                     |
| 21. AUDIO IN/OUT            | VEP84094A                  | VEP84094C                  | VEP84094C                  | VEP84094B                   | VEP84094A                 | VEP84094C                 | VEP84094C                 |
| 22. AUDIO IN/OUT SUB        | VEP80573A                  | VEP80573A                  | VEP80573A                  | VEP80573A                   | VEP80573A                 | VEP80573A                 | VEP80573                  |
| 23. AUTO OFF LED            | VEP00E08C                  | VEP00E08C                  | VEP00E08C                  | VEP00E08C                   | VEP00E08C                 | VEP00E08C                 | VEP00E08C                 |
| 24. AUDIO VR                | VEP84101A                  | VEP84101C                  | VEP84101B                  | VEP84102A                   | VEP84101A                 | VEP84101C                 | VEP84101B                 |
| 25. CASSETTE CARRIAGE LAMP  | VEP00E72A                  | VEP00E72A                  | VEP00E72A                  | VEP00E72A                   | VEP00E72A                 | VEP00E72A                 | VEP00E72A                 |
| 26. CASSETTE DETEG          | VEP00E30A                  | VEP00E30A                  | VEP00E30A                  | VEP00E30A                   | VEP00E30A                 | VEP00E30A                 | VEP00E30A                 |
| 27. EJECT INTERFACE         | VEP80422B                  | VEP80422B                  | VEP80422B                  | VEP80422B                   | VEP80422B                 | VEP80422B                 | VEP80422B                 |
| 28. EJECT SW                | VEP80232A                  | VEP80232A                  | VEP80232A                  | VEP80232A                   | VEP80232A                 | VEP80232A                 | VEP80232A                 |
| 29. FRONT INTERFACE         | VEP80553A                  | VEP80553C                  | VEP80553B                  | VEP80612A                   | VEP80631A                 | VEP80631B                 | VEP80631C                 |
| 30. FRONT LOADING           | VEP80440A                  | VEP80440A                  | VEP80440A                  | VEP80440A                   | VEP80440A                 | VEP80440A                 | VEP80440A                 |
| 31. FRONT MODE SELECT       | VEP80559A                  | VEP80559D                  | VEP80559C                  | VEP80559B                   | VEP80559A                 | VEP80559D                 | VEP80559C                 |
| 32. FRONT PANEL A           | VEP86050C                  | VEP86086A                  | VEP86086A                  | VEP66052C                   | VEP86050D                 | VEP86086A                 | VEP86086A                 |
| 33. FRONT PANEL B           | VEP66022A                  | VEP86076C                  | VEP86076C                  | VEP66022A                   | VEP66022A                 | VEP86076D                 | VEP86076D                 |
| 34. FRONT PANEL C           | VEP86048F                  | -----                      | -----                      | VEP66053E                   | VEP86048C                 | -----                     | -----                     |
| 35. FRONT SW VR             | VEP80552A                  | VEP80552A                  | VEP80552A                  | VEP80613A                   | VEP80552A                 | VEP80552A                 | VEP80552A                 |
| 36. HEADPHONE VR            | VEP80108A                  | VEP80108A                  | VEP80108A                  | VEP80108A                   | VEP80616A                 | VEP80616A                 | VEP80616A                 |
| 37. LOADING PHOTO           | VEP00E04B                  | VEP00E04B                  | VEP00E04B                  | VEP00E04B                   | VEP00E04B                 | VEP00E04B                 | VEP00E04B                 |
| 38. MECHA INTERFACE CIRCUIT | VEP80550A                  | VEP80550A                  | VEP80550A                  | VEP80550A                   | VEP80550A                 | VEP80550A                 | VEP80550A                 |
| 39. METER LAMP              | VEP80333B                  | VEP80333B                  | VEP80333B                  | VEP80333C                   | VEP80333A                 | VEP80333B                 | VEP80333B                 |
| 40. POWER FILTER            | VEP81042A                  | VEP81042A                  | VEP81042A                  | VEP81042A                   | VEP81058A                 | VEP81058A                 | VEP81058A                 |
| 41. POWER SUPPLY UNIT       | VYK3004                    | VYK3004                    | VYK3004                    | VYK3004                     | VYK3637                   | VYK3637                   | VYK3637                   |
| 42. RA & HA                 | VEP85015A                  | VEP85015C                  | VEP85015B                  | VEP85015A                   | VEP85015D                 | VEP85015F                 | VEP85015E                 |
| 43. TR SENSOR (1)           | VEP00E27C                  | VEP00E27C                  | VEP00E27C                  | VEP00E27C                   | VEP00E27C                 | VEP00E27C                 | VEP00E27C                 |
| 44. TR SENSOR (2)           | VEP00E28C                  | VEP00E28C                  | VEP00E28C                  | VEP00E28C                   | VEP00E28C                 | VEP00E28C                 | VEP00E28C                 |
| 45. UNLOADING PHOTO         | VEP00E25C                  | VEP00E25C                  | VEP00E25C                  | VEP00E25C                   | VEP00E25C                 | VEP00E25C                 | VEP00E25C                 |
| 46. VIDEO/CH4 METER SW      | -----                      | -----                      | -----                      | VEP80083B                   | -----                     | -----                     | -----                     |
| 47. VIDEO I/O               | VEP83097A                  | VEP83097B                  | VEP83097B                  | VEP83104A                   | VEP83097C                 | VEP83097B                 | VEP83097B                 |
| 48. VIDEO VR                | -----                      | -----                      | -----                      | VEP80621A                   | -----                     | -----                     | -----                     |
| 49. YC IN/OUT               | VEP80574A                  | VEP80574A                  | VEP80574A                  | VEP80574A                   | VEP80574A                 | VEP80574A                 | VEP80574A                 |
| 50. 9P REMOTE               | VEP80551A                  | VEP80551A                  | VEP80551A                  | VEP80551B                   | VEP80551A                 | VEP80551A                 | VEP80551A                 |
| 51. 50P REMOTE              | -----                      | -----                      | -----                      | VEP80558A                   | -----                     | -----                     | -----                     |

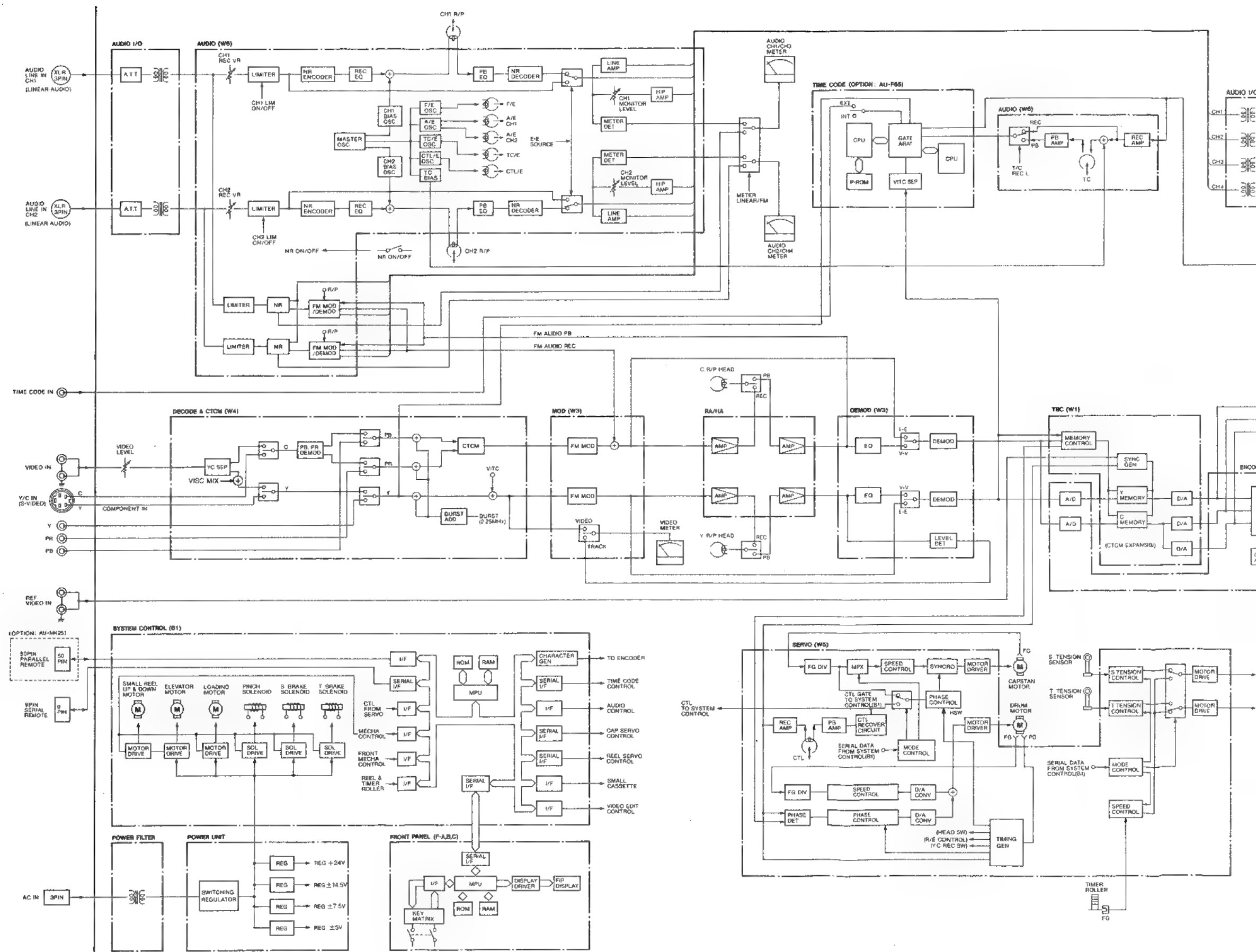
# OVERALL BLOCK DIAGRAM [FOR AU-665 NTSC]



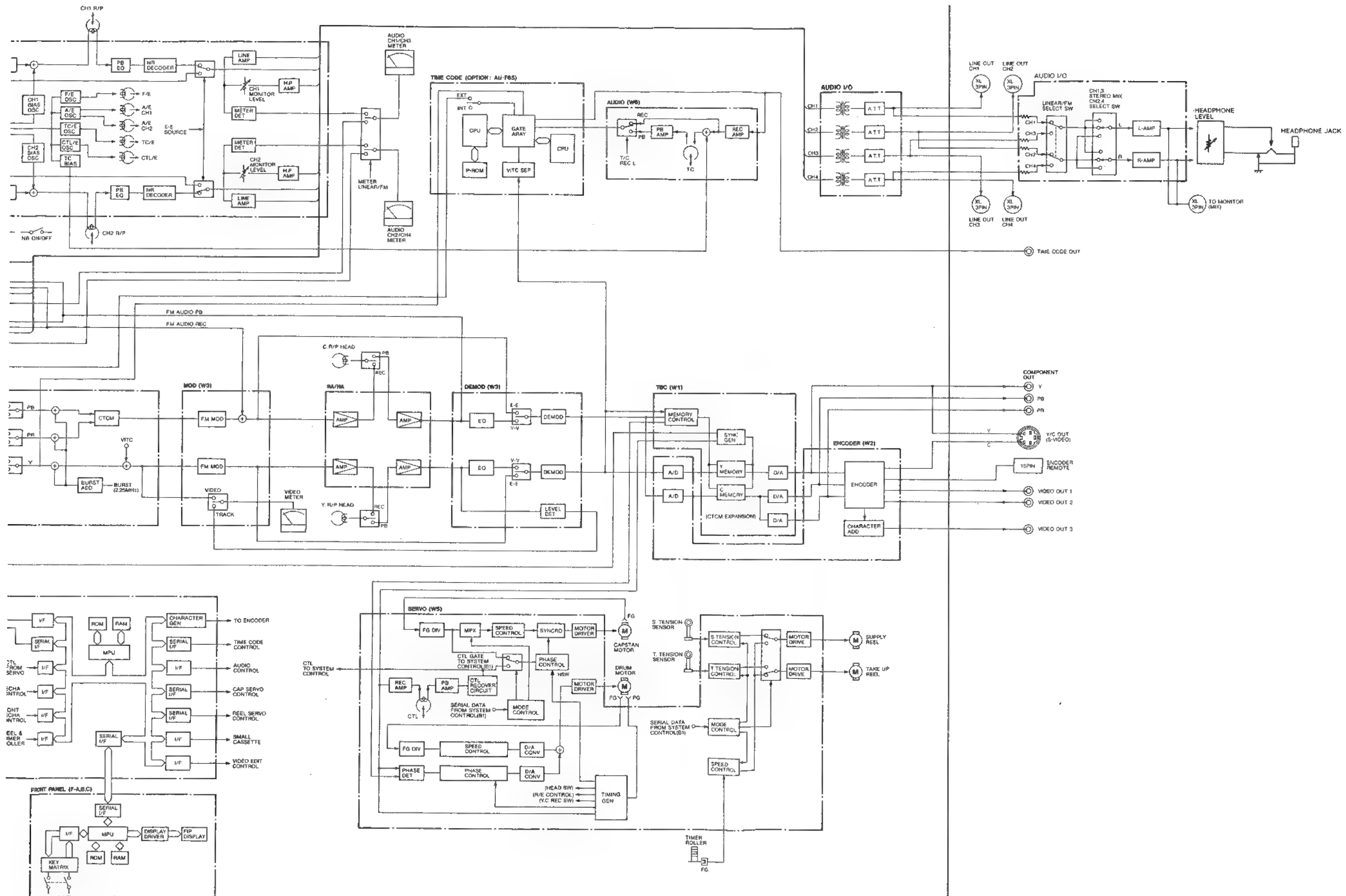




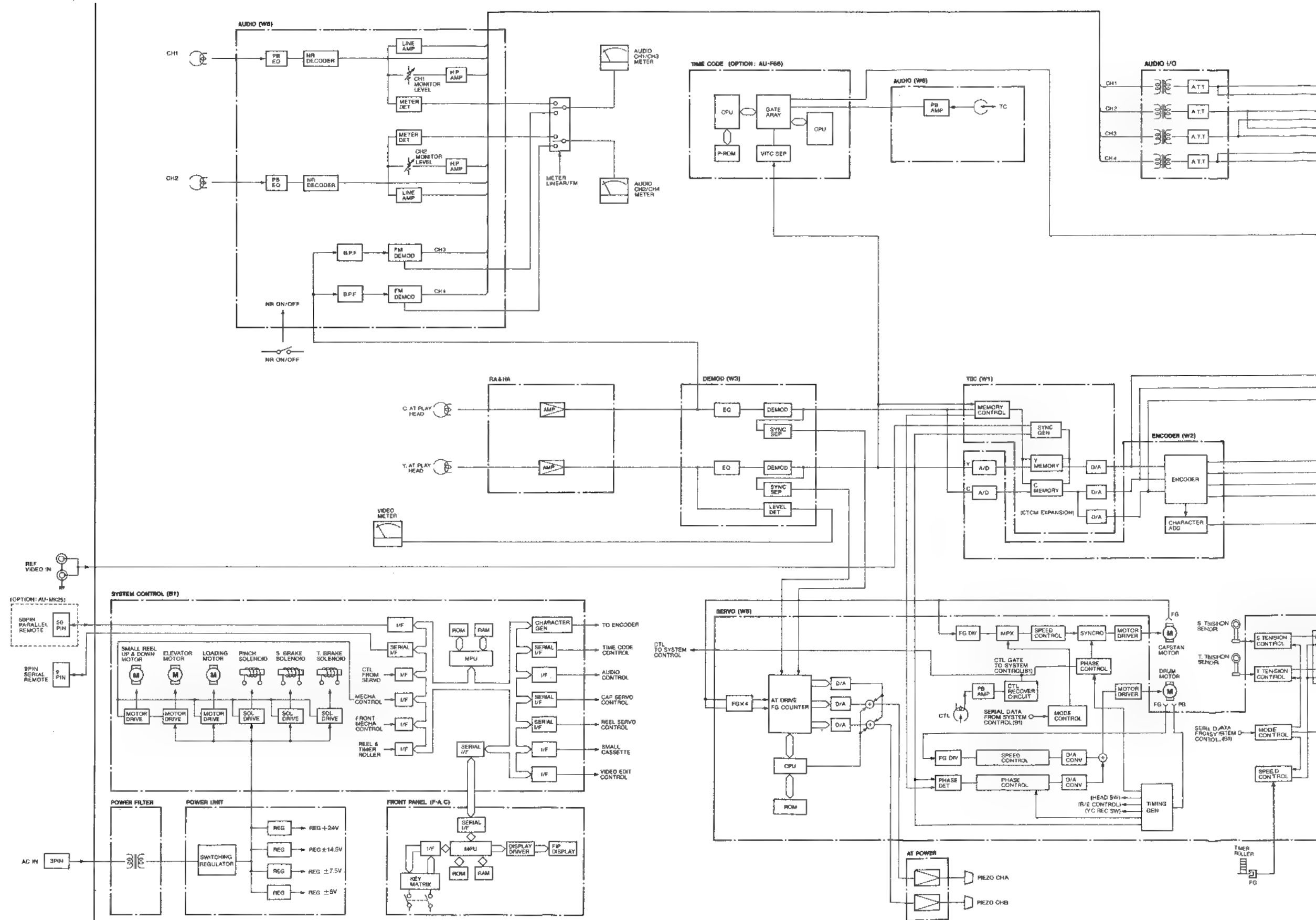
# OVER ALL BLOCK DIAGRAM[FOR AU-65]



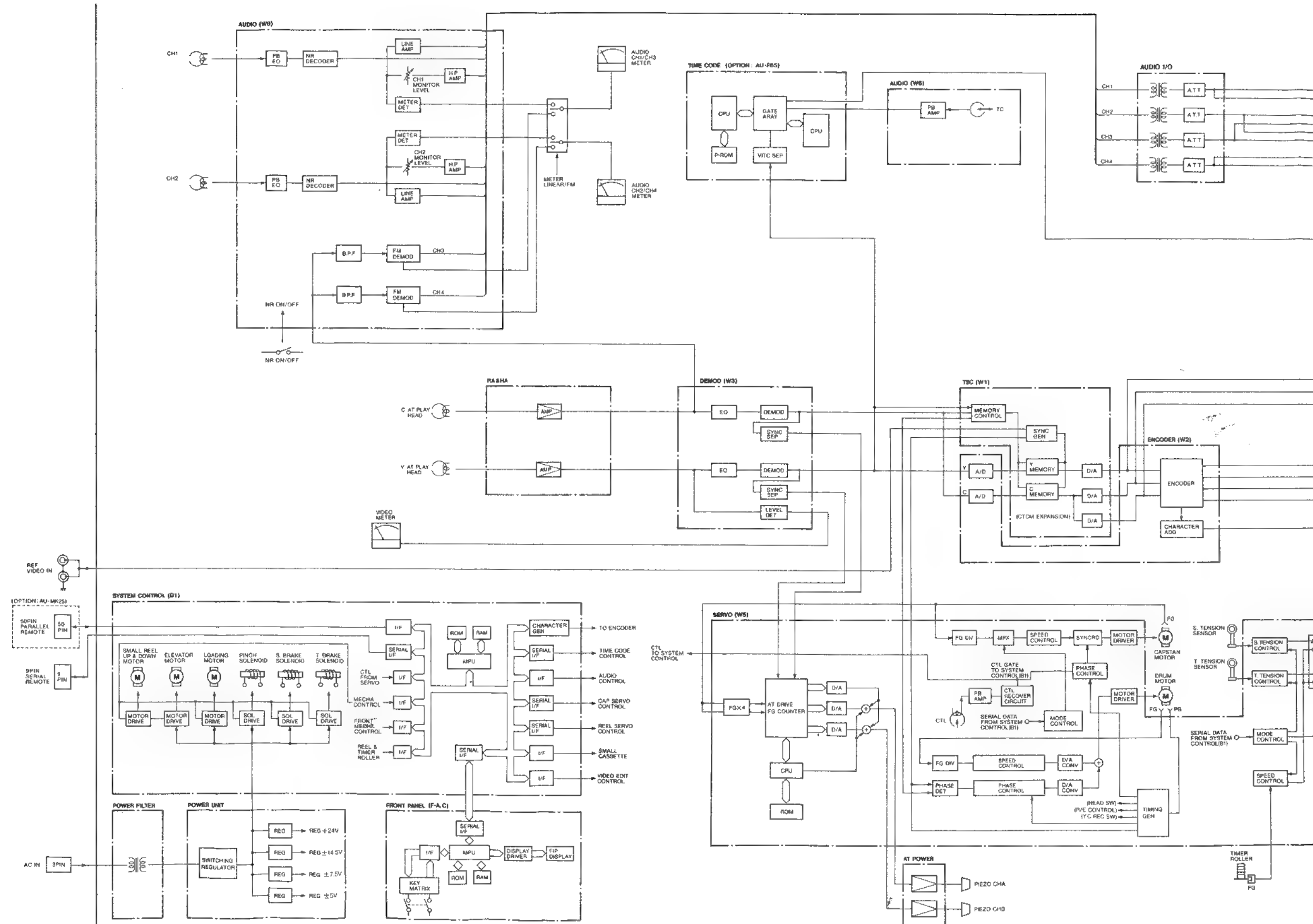
# AGRAM[FOR AU-65]



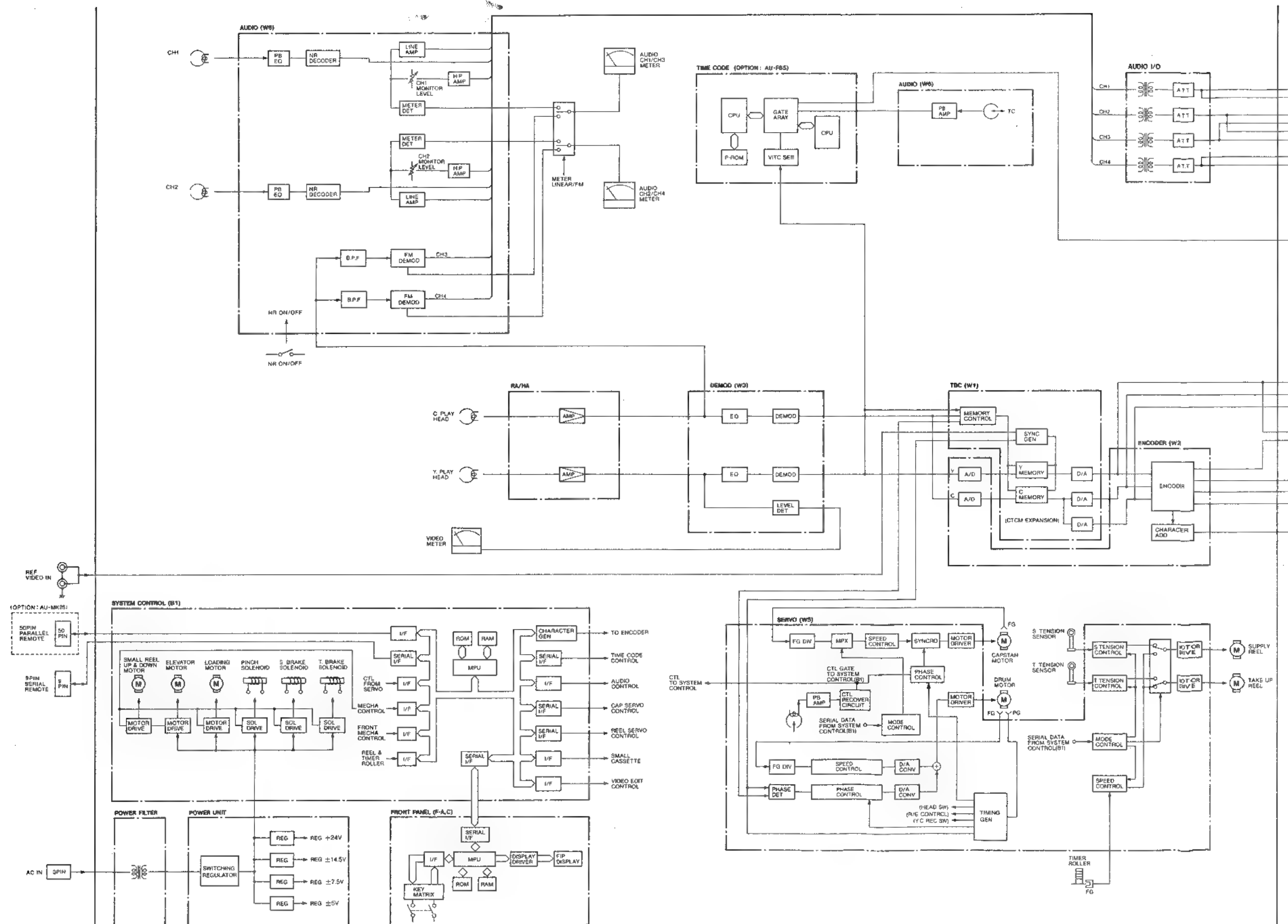
## OVER ALL BLOCK DIAGRAM[FOR AU-63]



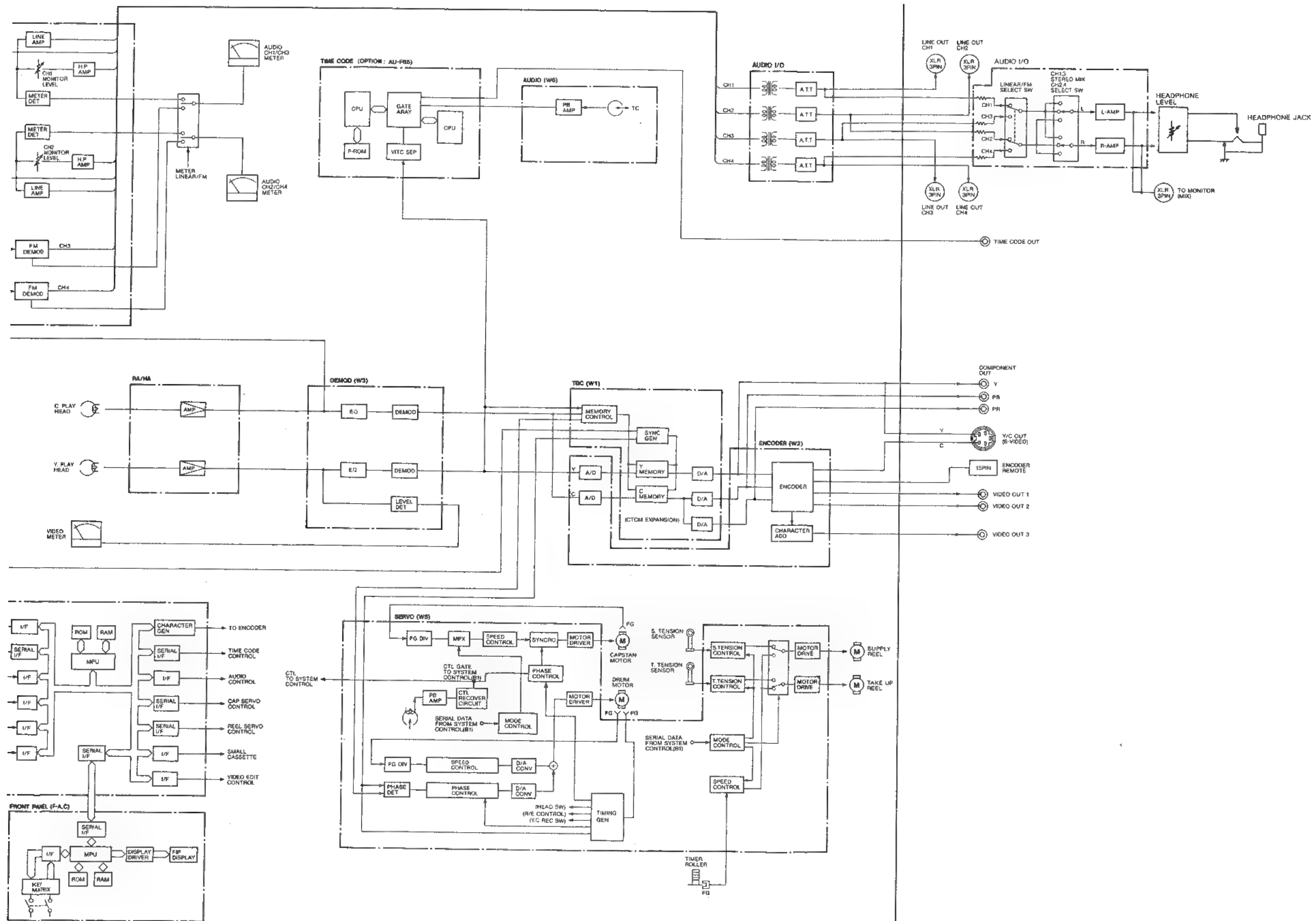
# OVER ALL BLOCK DIAGRAM[FOR AU-63]



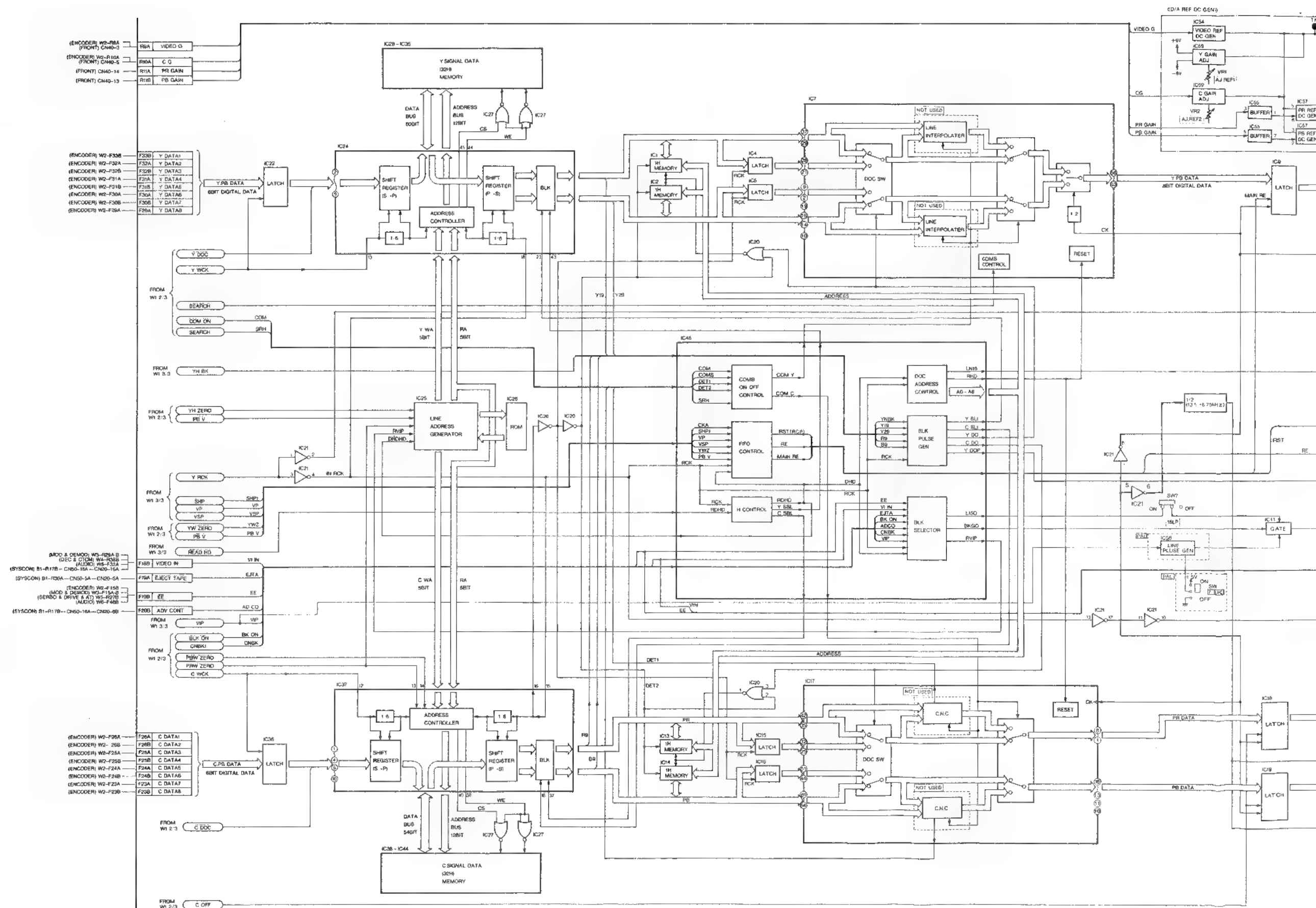
# OVER ALL BLOCK DIAGRAM[FOR AU-62]



# GRAM[FOR AU-62]

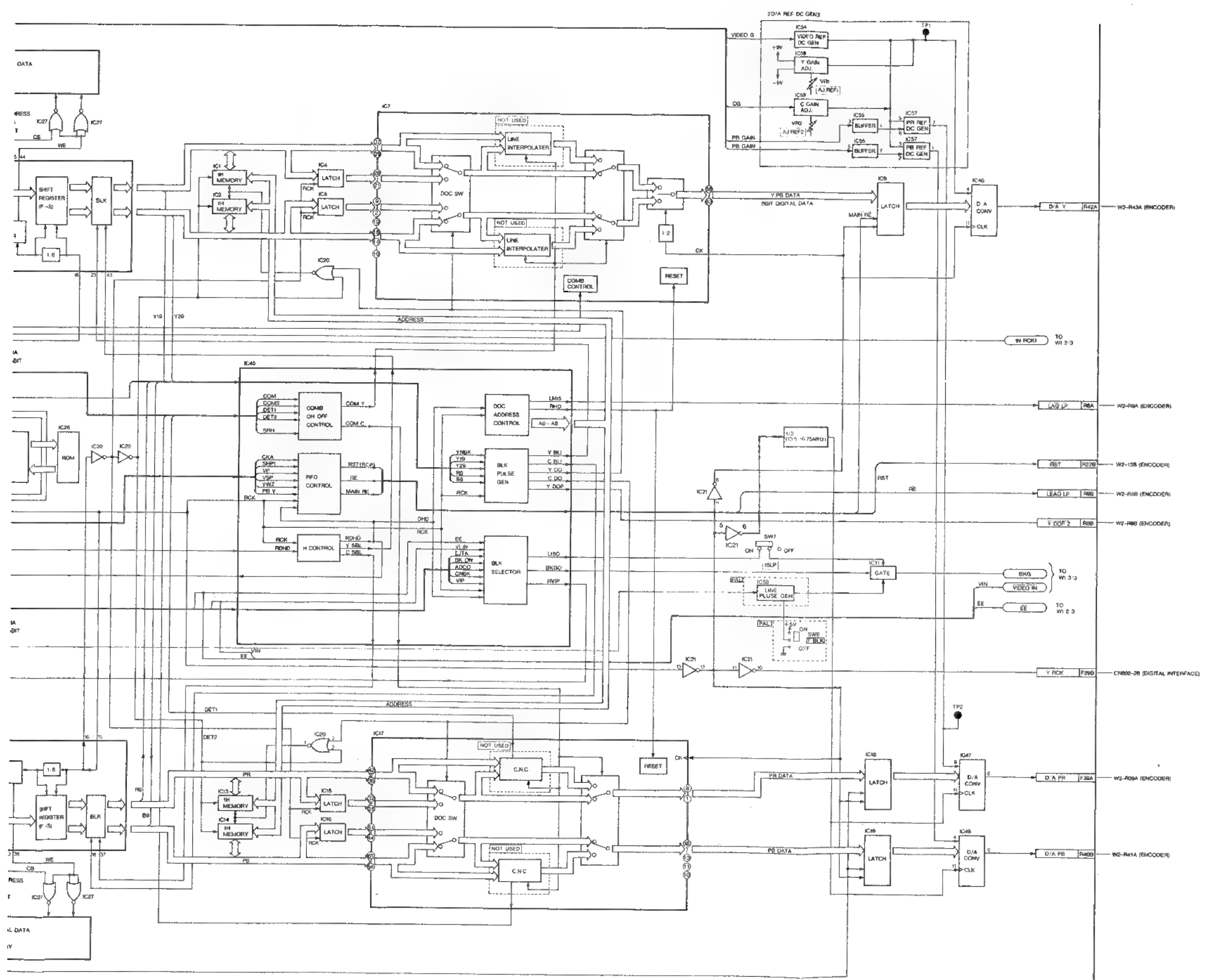


# W1 (TBC & SYNC GEN) BLOCK DIAGRAM 1/3 (TBC SECTION)[FOR AU-65,AU-63,AU-62]





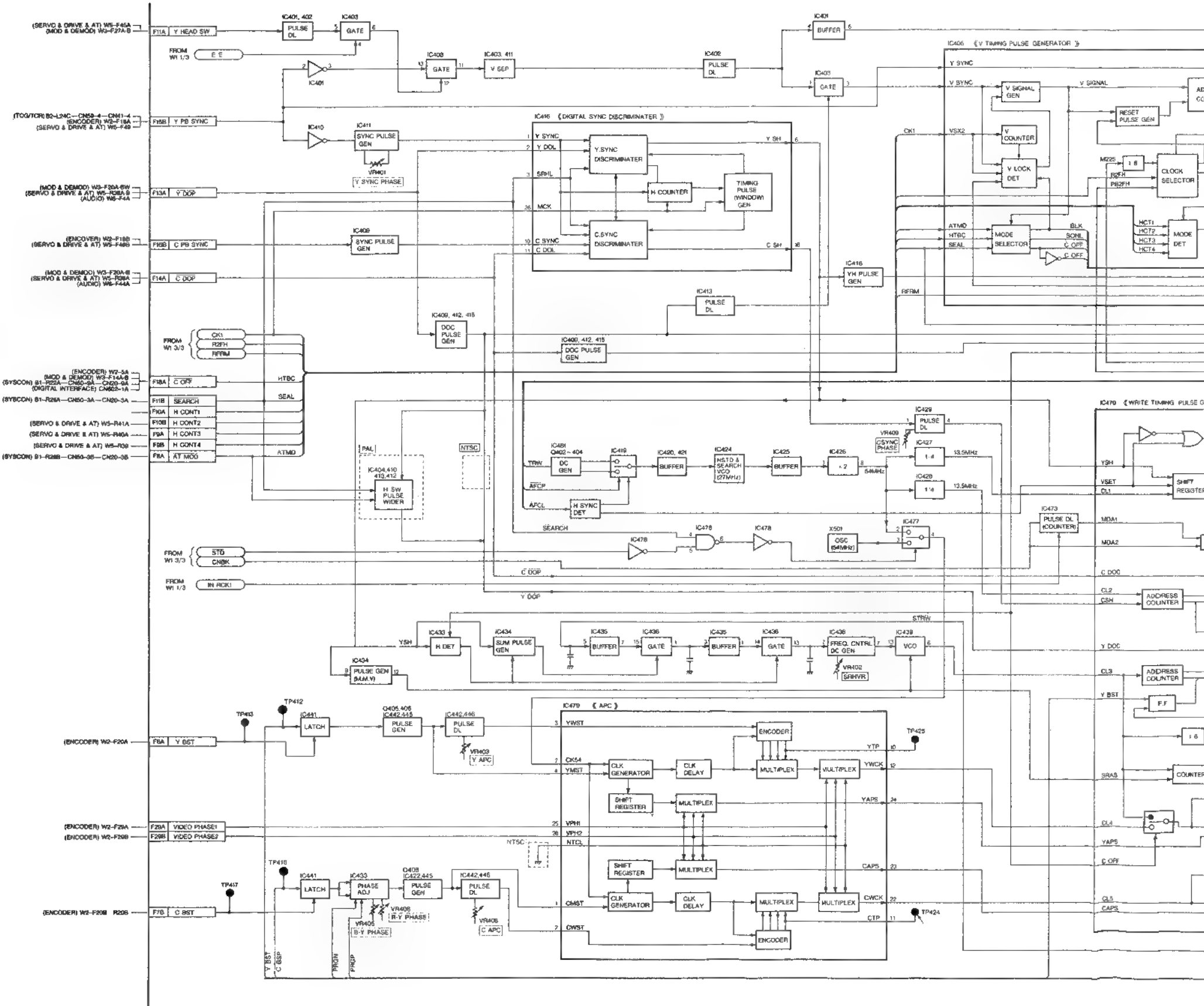
LOCK DIAGRAM 1/3 (TBC SECTION)[FOR AU-65,AU-63,AU-62]



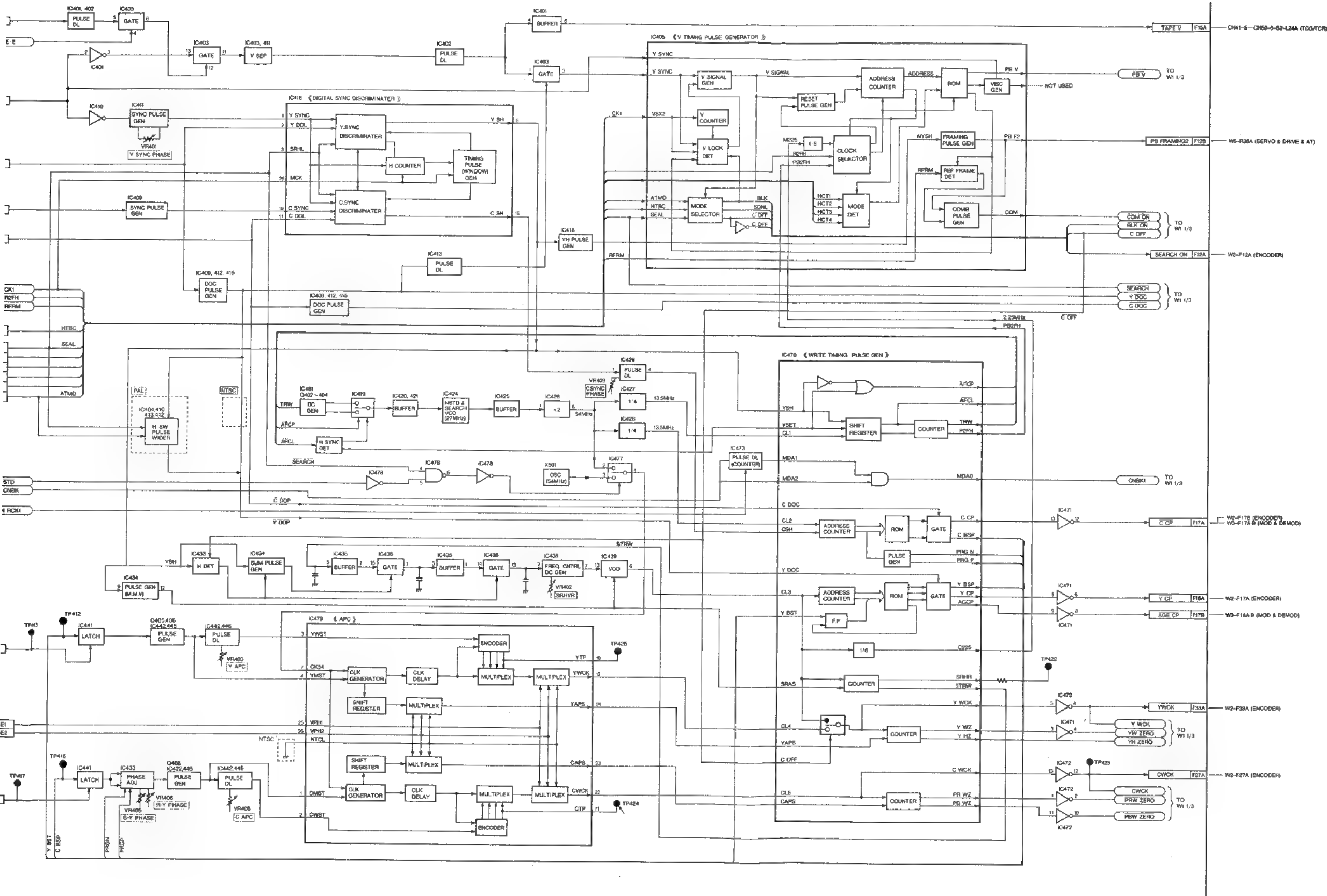
| IC45 (μPD65013FA44) |          |     |                                       |         |          |     |                                   |         |          |
|---------------------|----------|-----|---------------------------------------|---------|----------|-----|-----------------------------------|---------|----------|
| PIN NO.             | PIN NAME | I/V | DESCRIPTION                           | PIN NO. | PIN NAME | I/V | DESCRIPTION                       | PIN NO. | PIN NAME |
| 1                   | COM      | IN  | ADDRESS FOR 1H MEMO                   | 47      | A6       | OUT | ADDRESS FOR 1H MEMO               | 94      | CDO      |
| 2                   | COMS     | IN  | E-E MODE (E)                          | 48      | VIIN     | IN  | VIDEO SIGNAL IN (E)               | 95      | L150     |
| 3                   | DET1     | IN  | E-E MODE AND EJECT                    | 49      | VIIN     | IN  | VIDEO SIGNAL IN (E)               | 96      | YBKI     |
| 4                   | DET2     | IN  | E-E MODE AND EJECT                    | 50      | EJTA     | IN  | TAPE MODE AND EJECT               | 97      | YBKI     |
| 5                   | CNC      | IN  | E-E MODE V=REF (E)                    | 51      | BKON     | IN  | RPH HEAD SEARCH (E)               | 98      | YBKI     |
| 6                   | SRH      | IN  | V=INCOM (E)                           | 52      | ADCO     | IN  | E-E MODE V=REF (E)                | 99      | MNC      |
| 7                   | PAL      | IN  | PAL (E)                               | 53      | ADCO     | IN  | E-E MODE V=REF (E)                |         |          |
| 8                   | COMY     | OUT | Y COM "ON" (E)                        | 54      | CNBK     | IN  | C NARRON DIGITAL BLANK PULSE      |         |          |
| 9                   | COMC     | OUT | Y COM "ON" (E)                        | 55      | VIP      | IN  | READ ADDRESS TIMING PULSE         |         |          |
| 10                  | CKA      | IN  | CLOCK A (=CK1 13.5MHz)                | 56      | MIP      | IN  | READ ADDRESS TIMING PULSE         |         |          |
| 11                  | SHPI     | IN  | SAMPLE HOLD PULSE FOR CK1             | 57      | MMV      | IN  | MONOSCALE MULTIFRONT CONTROL      |         |          |
| 12                  | VP       | IN  | VERTICAL PULSE OF VIDEO OUT           | 72      | RVP      | OUT | READ ADDRESS TIMING PULSE         |         |          |
| 13                  | VSP      | IN  | 2 FH PULSE OF VIDEO OUT               | 73      | BKGO     | OUT | Y BLANKING DATA OUTPUT            |         |          |
| 14                  | YWZ      | IN  | Y WRITE ZERO (START PULSE)            | 74      | BKGI     | OUT | Y BLANKING PULSE BY B             |         |          |
| 15                  | YVZ      | IN  | Y VBLANKING PULSE BY B                | 75      | MDBI     | IN  | MODE SW FOR YNBK DEL TIME         |         |          |
| 16                  | PBY      | IN  | MODE SW FOR YNBK DEL TIME             | 76      | MDBI     | IN  | MODE SW FOR YNBK DEL TIME         |         |          |
| 17                  | RCP      | OUT | READ SIGNAL CLAMP PULSE (FOR ENCODER) | 77      | MDA1     | IN  | MODE SW FOR BKGI DEL TIME         |         |          |
| 18                  | RST      | OUT | RE SE 11 PULSE READING FIFO           | 78      | MDA2     | IN  | MODE SW FOR BKGI DEL TIME         |         |          |
| 19                  | RE       | OUT | READ ENABLE PULSE FOR READING FIFO    | 79      | MDA2     | IN  | MODE SW FOR BKGI DEL TIME         |         |          |
| 20                  | WE       | OUT | WRITE ENABLE PULSE FOR WRITING FIFO   | 79      | MDBI     | IN  | MODE SW FOR YNBK DEL TIME         |         |          |
| 21                  | MRE      | OUT | VIDEO DATA TO D/A (E)                 | 80      | YDIP     | OUT | Y DROP OUT PULSE (FOR ENCODER)    |         |          |
| 22                  | RCK      | IN  | READ CLOCK                            | 81      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 23                  | RDHD     | IN  | HD PULSE FOR READ ADDRESS             | 82      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 24                  | MDC1     | IN  | MODE SW FOR RDHD DELAY TIME           | 83      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 25                  | MDC2     | IN  | MODE SW FOR RDHD DELAY TIME           | 84      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 26                  | YSBL     | OUT | Y SERIAL BLANKING DATA                | 85      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 27                  | CSBL     | OUT | C SERIAL BLANKING DATA                | 86      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 28                  | EHDO     | OUT | DELAYED RDHD                          | 87      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 29                  | EHDI     | IN  | EHDO INPUT                            | 88      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 30                  | DHDO     | OUT | DELAYED EHDO (MEMORY REFERENCE HD)    | 89      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 31                  | DHDI     | IN  | DHDO INPUT                            | 90      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 32                  | CKO      | IN  | 6.75 MHz                              | 91      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 33                  | LN15     | OUT | NTSC15 LINE, PAL 12 LINE              | 92      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 34                  | RHD      | OUT | RESET SIGNAL                          | 93      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 35                  | A0       | OUT | ADDRESS FOR 1H MEMORY                 | 94      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 36                  | A1       | OUT | ADDRESS FOR 1H MEMORY                 | 95      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 37                  | A2       | OUT | ADDRESS FOR 1H MEMORY                 | 96      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 38                  | A3       | OUT | ADDRESS FOR 1H MEMORY                 | 97      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 39                  | A4       | OUT | ADDRESS FOR 1H MEMORY                 | 98      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 40                  | A5       | OUT | ADDRESS FOR 1H MEMORY                 | 99      | YDIP     | IN  | Y PARALLEL DATA OF DROP OUT PULSE |         |          |
| 41                  | A6       | OUT | ADDRESS FOR 1H MEMORY                 |         |          |     |                                   |         |          |
| 42                  | A7       | OUT | ADDRESS FOR 1H MEMORY                 |         |          |     |                                   |         |          |

## W1 (TBC & SYNC GEN) BLOCK DIAGRAM 2/3 (WRITE CLOCK GEN SECTION)

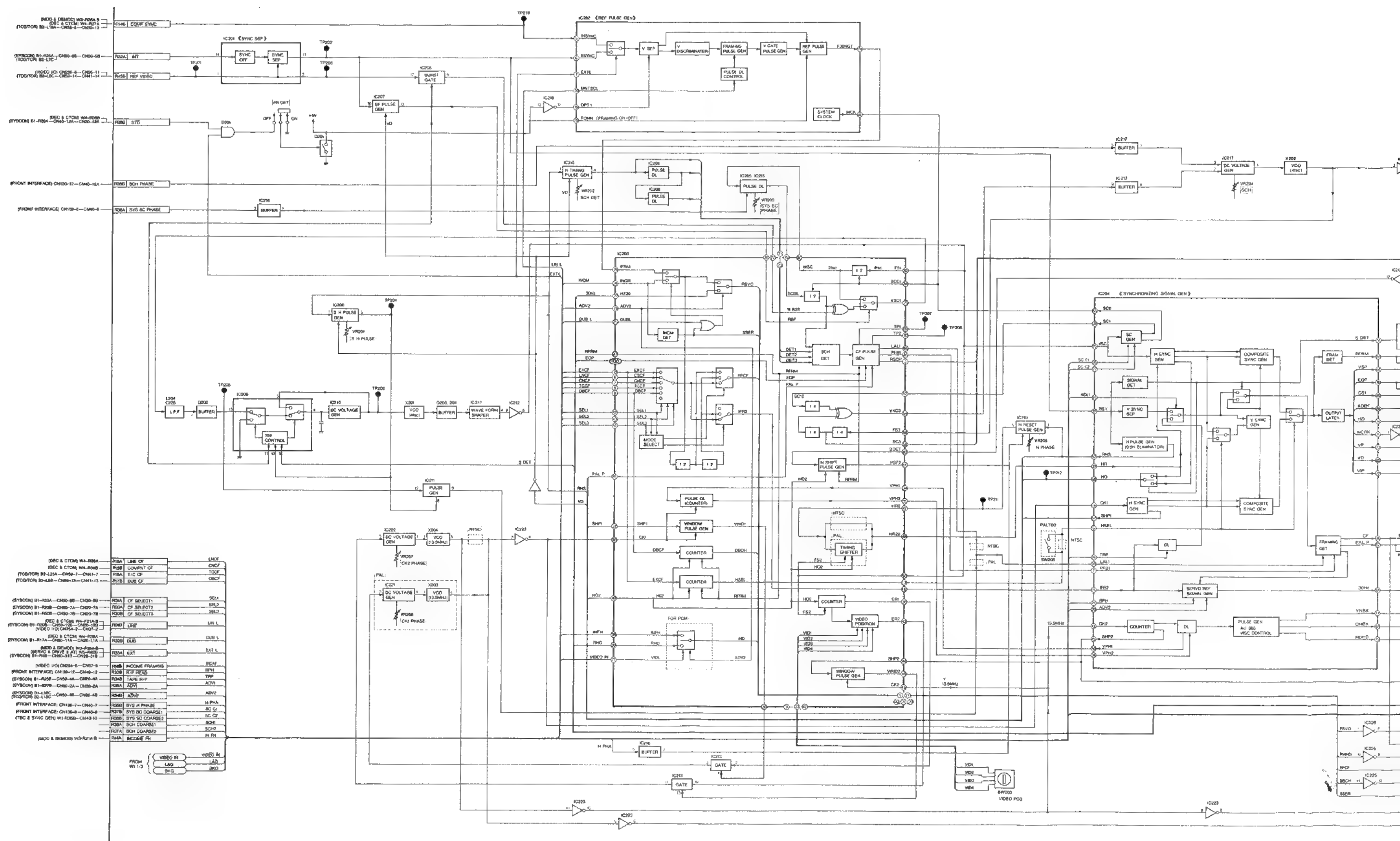
| PIN NO. | PIN NAME | IN/OUT | DESCRIPTION         |
|---------|----------|--------|---------------------|
| 1       | CMST     | IN     | C MONOMULTI START   |
| 2       | CWST     | IN     | C WRIGHT START      |
| 3       | YWST     | IN     | Y WRIGHT START      |
| 4       | YMST     | IN     | Y MONOMULTI START   |
| 5       |          | —      |                     |
| 6       | GND      | —      |                     |
| 7       | CK54     | IN     | CLOCK 54MHz         |
| 10      | YTP      | OUT    | Y TEST POINT        |
| 11      | CTP      | OUT    | C TEST POINT        |
| 12      | YWCK     | OUT    | Y WRIGHT CLOCK      |
| 17      | GND      | —      |                     |
| 18      | NTCL     | IN     | NTSC LOW (PAL HIGH) |
| 22      | CWCK     | OUT    | C WRIGHT CLOCK      |
| 23      | CAPS     | OUT    | C APC START         |
| 24      | YAPS     | OUT    | Y APC START         |
| 25      | VPH1     | IN     | VIDEO PHASE 1       |
| 26      | VPH2     | IN     | VIDEO PHASE 2       |



**(TBC & SYNC GEN) BLOCK DIAGRAM 2/3 (WRITE CLOCK GEN SECTION)[FOR AU-65,AU-63,AU-62]**

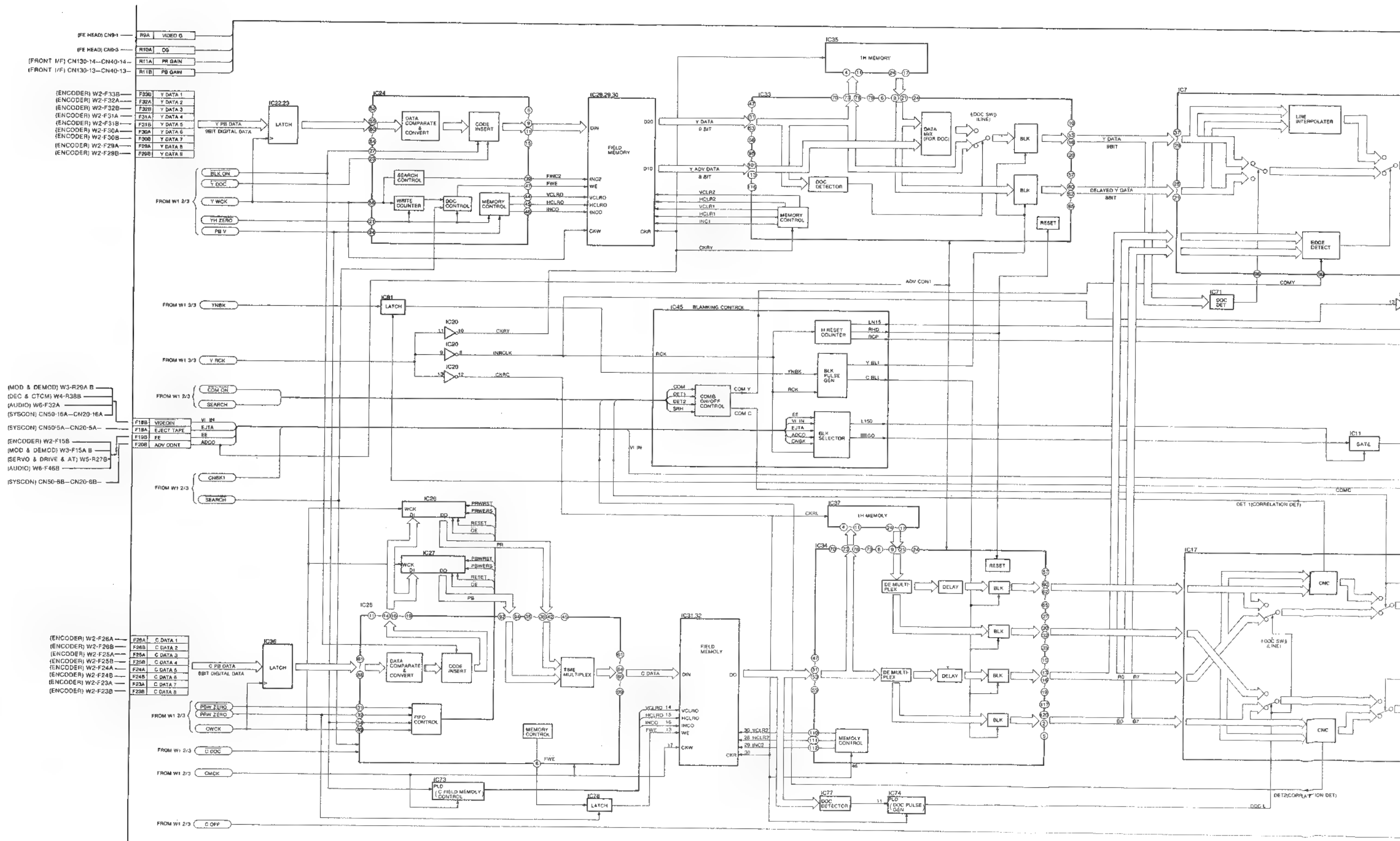


**W1 (TBC & SYNC GEN) BLOCK DIAGRAM 3/3 (SYNC GEN SECTION)[FOR AU-65,AU-63,AU-62]**

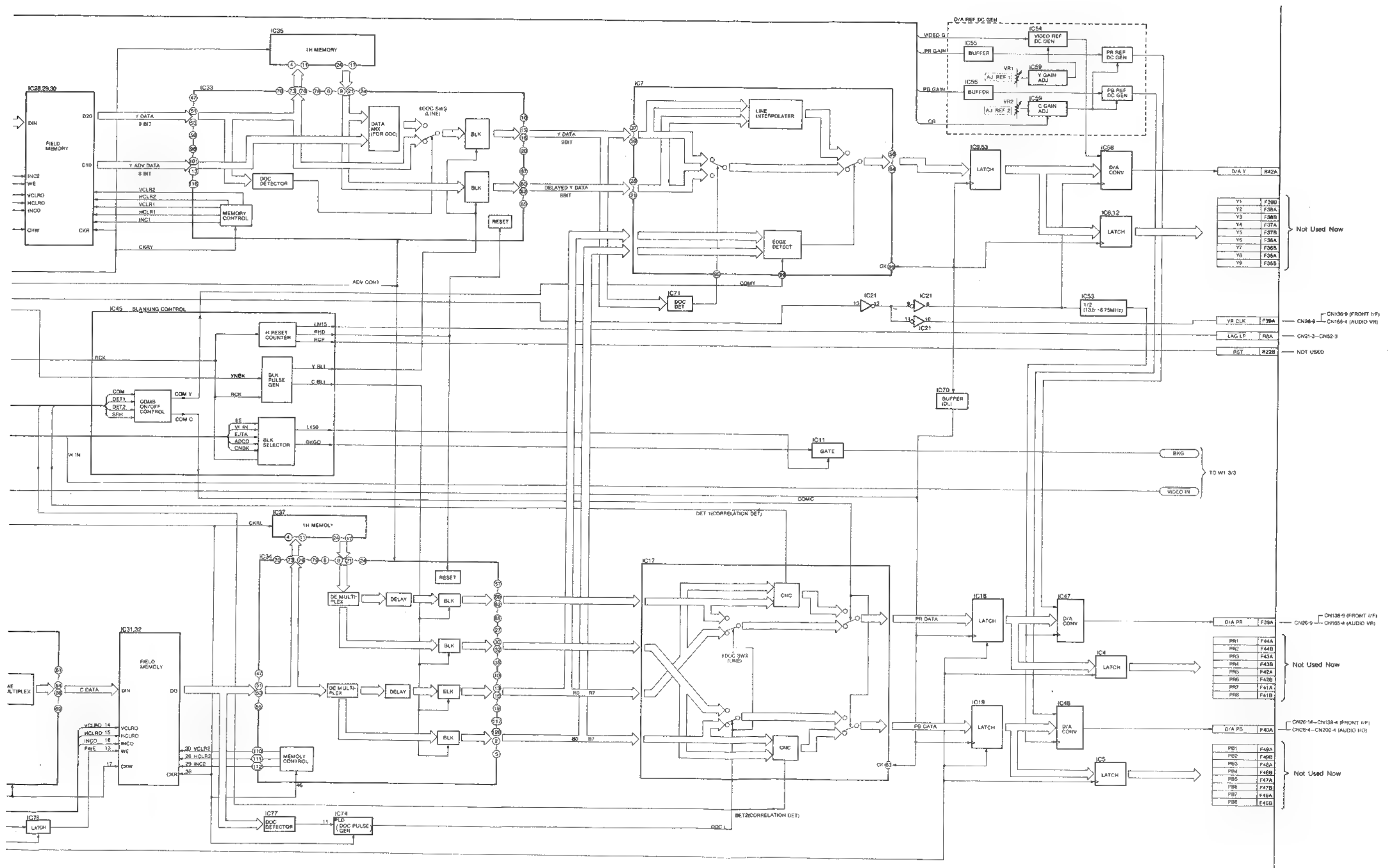




**W1(TBC & SYNC GEN) BLOCK DIAGRAM 1/3 (WRITE CLOCK GEN SECTION) [FOR AU-665 NTSC]**

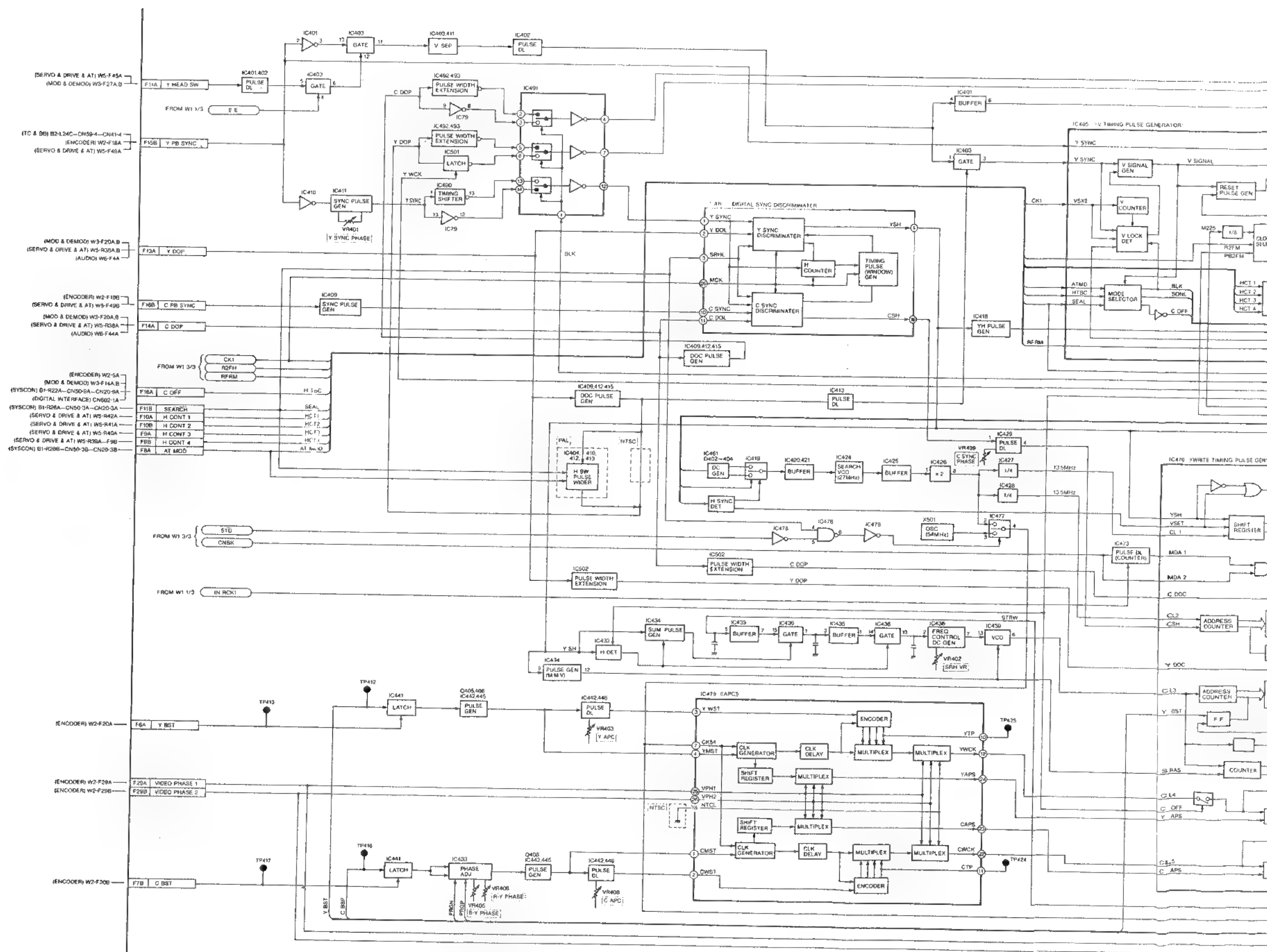


### 1/3 (WRITE CLOCK GEN SECTION) [FOR AU-665 NTSC]



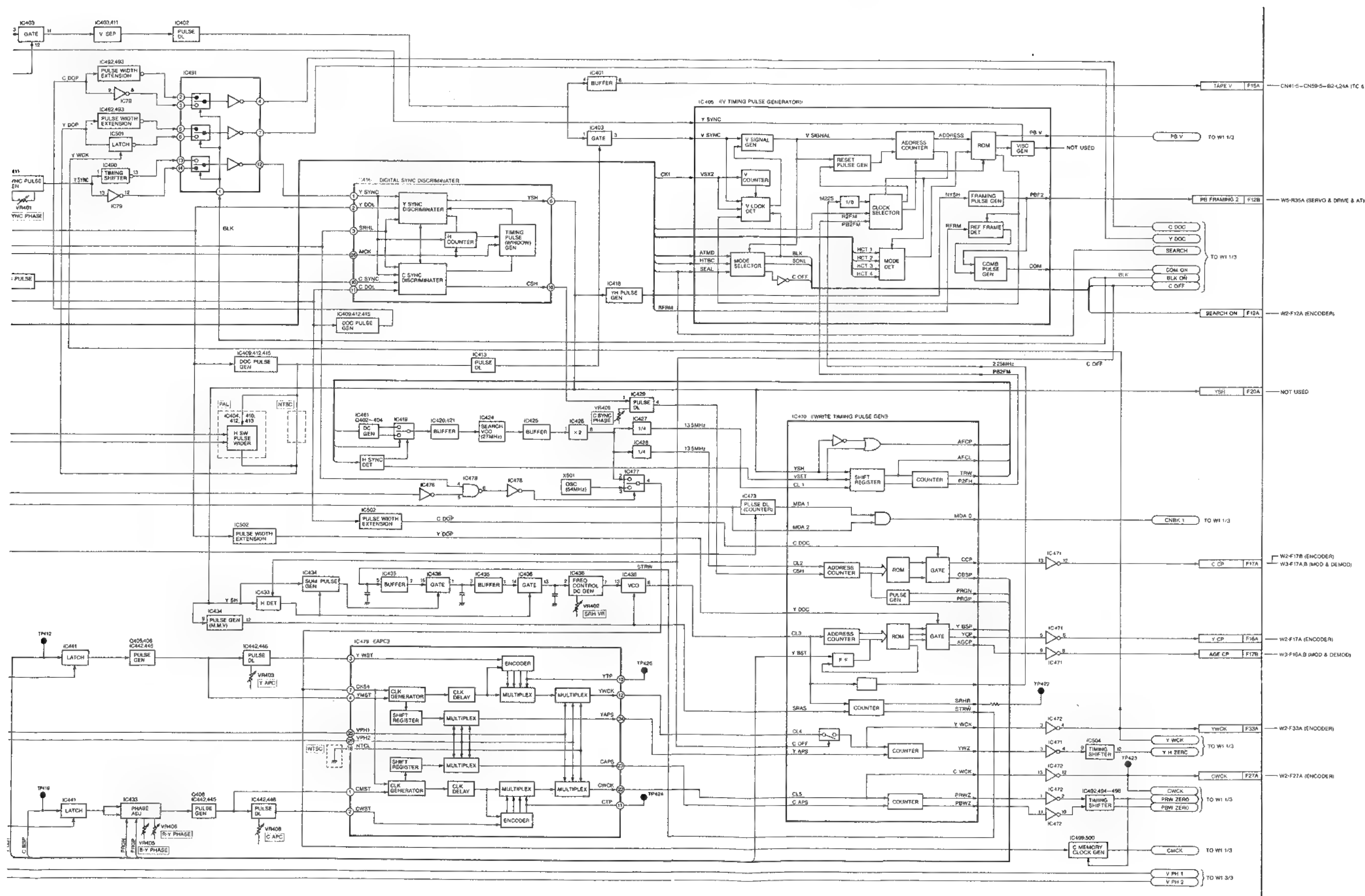


**W1(TBC & SYNC GEN) BLOCK DIAGRAM 2/3 (FIELD TBC SECTION) [FOR AU-665 NTSC1**

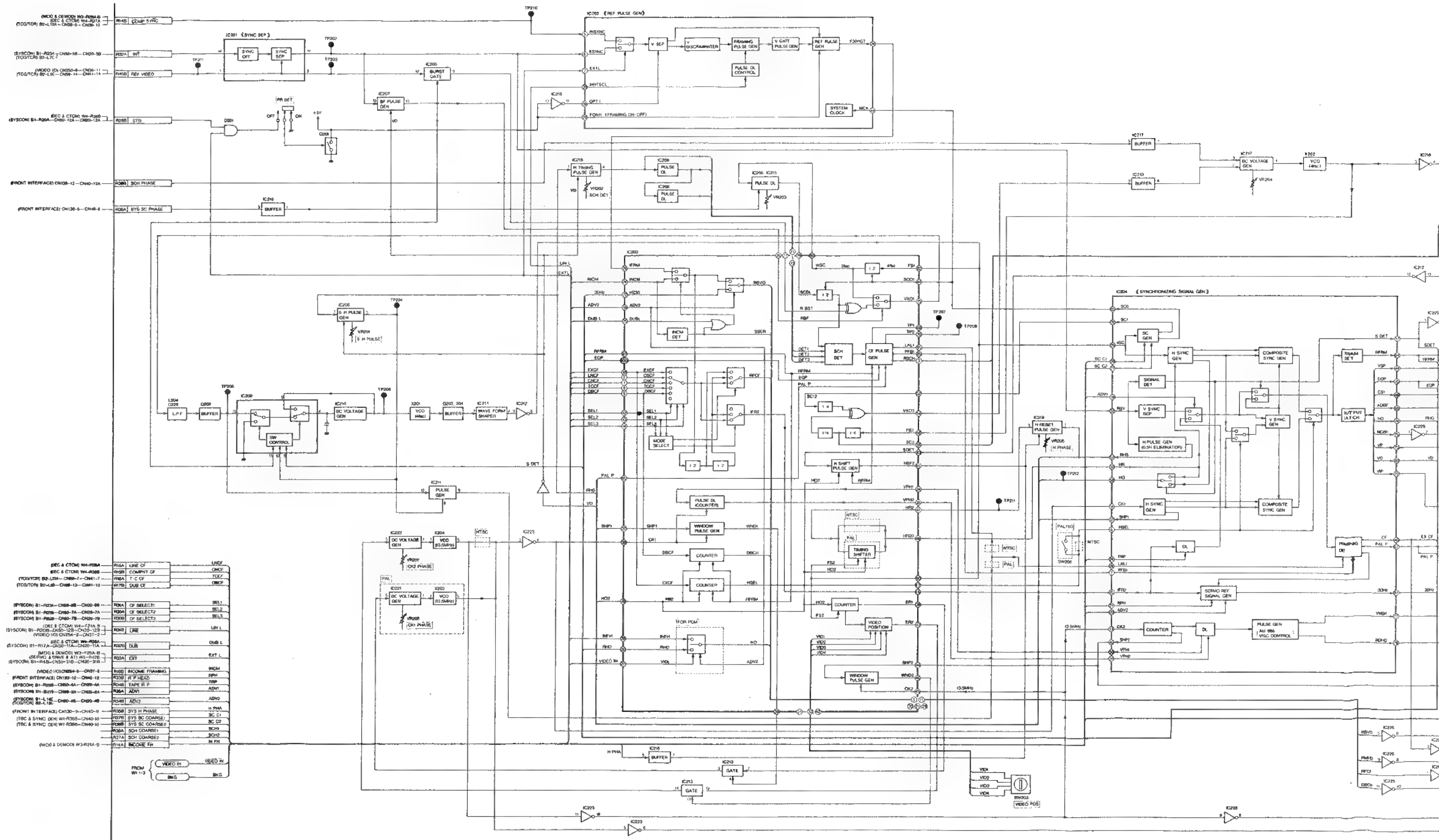




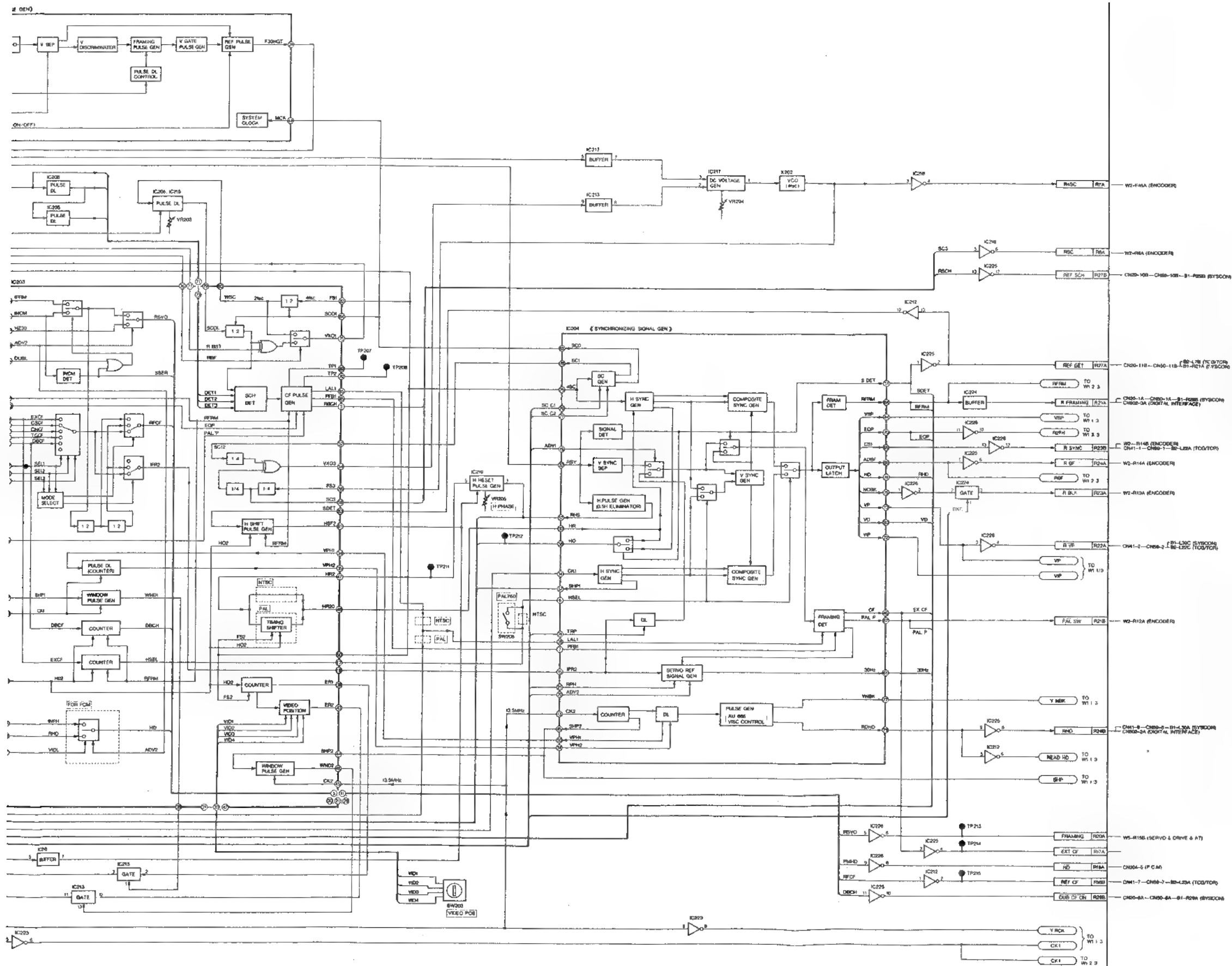
**GEN) BLOCK DIAGRAM 2/3 (FIELD TBC SECTION) [FOR AU-665 NTSC]**



# W1(TBC & SYNC GEN) BLOCK DIAGRAM 3/3 (SYNC GEN SECTION)[FOR AU-665 NTSC]



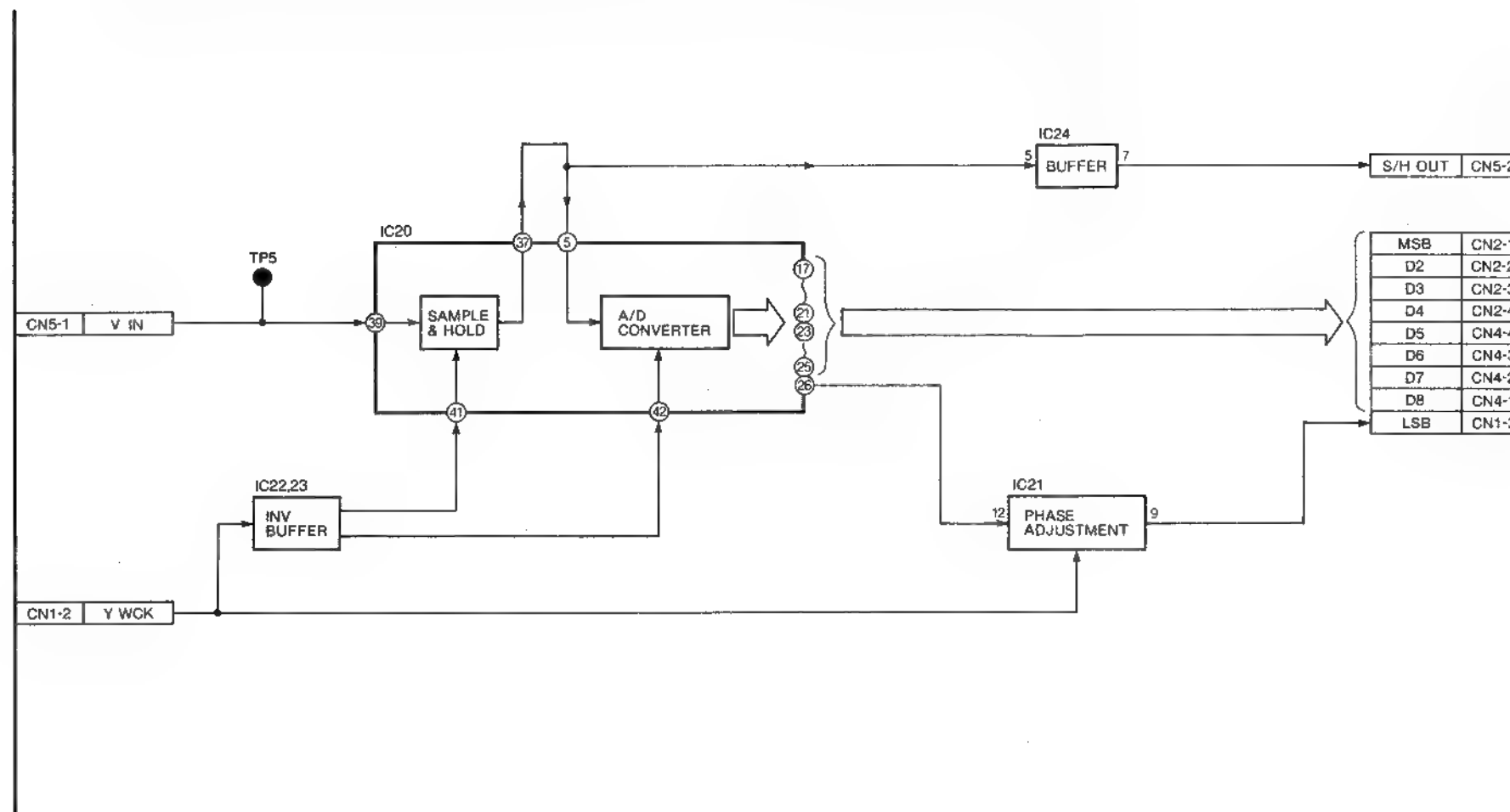
# SYNC GEN SECTION) [FOR AU-665 NTSC]



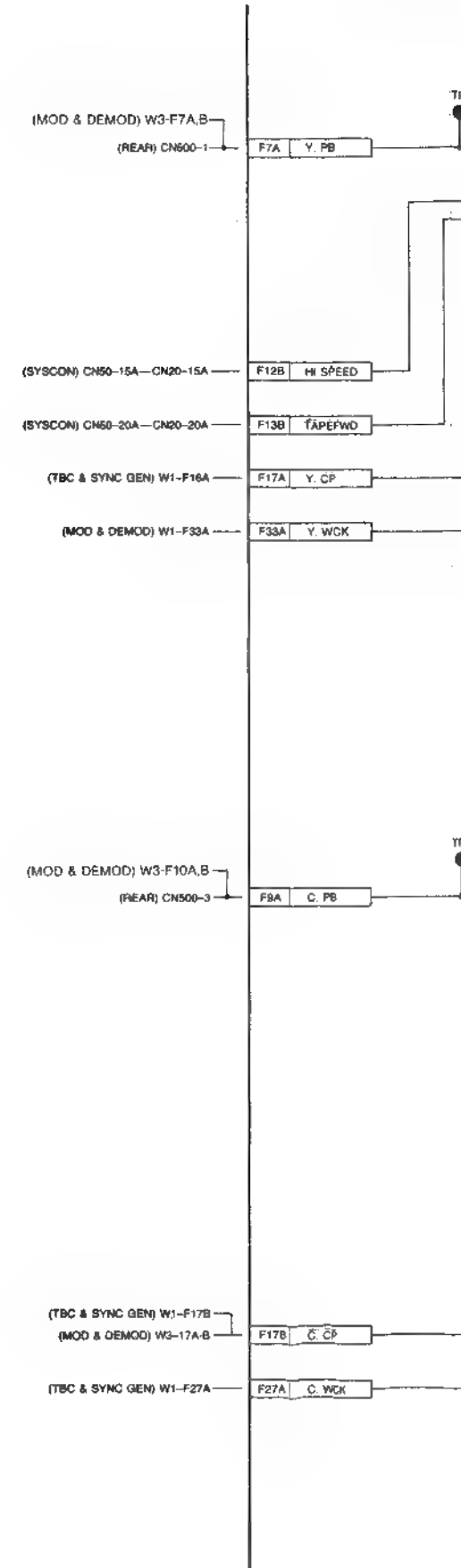
| IC203 (μPD65024GF152) |          |        |   |         |          |        |   |
|-----------------------|----------|--------|---|---------|----------|--------|---|
| PIN NO.               | PIN NAME | IN/OUT | DESCRIPTION                               | PIN NO. | PIN NAME | IN/OUT | DESCRIPTION   |
| 3                     | RSCH     | OUT    | REFERENCE SCH                             | 45      | CK2      | IN     | CLOCK 2   |
| 4                     | DBCH     | OUT    | DUB COLOR FRAMING IN HIGH                 | 46      | WNO2     | OUT    | WINDOW 2  |
| 5                     | OSCF     | IN     | COMPONENT COLOR FRAMING                   | 47      | HR2      | IN     | H RESET 2   |
| 6                     | CNCF     | IN     | COMPONENT COLOR FRAMING (NO PULSE)        | 48      | HR20     | OUT    | H RESET 2 OUTPUT                                    |
| 7                     | TCOF     | IN     | TIME CODE COLOR FRAMING                   | 49      | HO2      | IN     | HO SIGNAL (IC204 68P) INPUT NO. 2                   |
| 8                     | DBCF     | IN     | DUB COLOR FRAMING                         | 50      | FS2      | IN     | FOUR SUB CARRIER NO. 2 (4 FSC)                      |
| 9                     | EXCF     | IN     | EXTERNAL COLOR FRAMING                    | 51      | SC12     | IN     | SC1 (IC204 78P) INPUT NO. 2                         |
| 11                    | RFCF     | OUT    | REFERENCE COLOR FRAMING FOR SERVO         | 52      | SC11     | IN     | SC1 COARSE CONTROL NO. 1                            |
| 12                    | SEL1     | IN     | COLOR FRAMING SELECTOR SIGNAL             | 54      | VX03     | OUT    | CONTROL SIGNAL 3 FOR VX0                            |
| 13                    | SEL2     | IN     | COLOR FRAMING SELECTOR SIGNAL             | 55      | SC2      | IN     | SC2 COARSE CONTROL NO. 1                            |
| 14                    | SEL3     | IN     | COLOR FRAMING SELECTOR SIGNAL             | 56      | FS3      | IN     | FOUR SC NO. 3 (4 FSC)                               |
| 15                    | IFR2     | OUT    | COLOR FRAMING SIGNAL FOR S-E              | 58      | SC3      | OUT    | SUB CARRIER 3                                       |
| 16                    | IFR2     | OUT    | COLOR FRAMING SIGNAL FOR S-E              | 60      | SC02     | IN     | SUB CARRIER 0 (IC204 65P) INPUT NO. 2               |
| 19                    | ADV2     | IN     | ADVANCE 2                                 | 61      | HSF2     | OUT    | H SHIFT PROTECTION SIGNAL 2                         |
| 20                    | RSVO     | OUT    | REFERENCE FOR SERVO VO (30Hz)             | 69      | TP1      | OUT    | TEST POINT 1 (FOR SCH ADJ.)                         |
| 21                    | SSEF     | OUT    | 30Hz SIGNAL (24P) IN Ⓞ                    | 70      | TP2      | OUT    | TEST POINT 2 (FOR SCH ADJ.)                         |
| 22                    | H230     | IN     | 30Hz                                      | 71      | DET1     | IN     | DETECTION FOR SUB CARRIER POLARITY (H TIMING PULSE) |
| 24                    | INCM     | IN     | INCOME 30Hz                               | 78      | DET2     | IN     | DETECTION FOR SUB CARRIER POLARITY (H TIMING PULSE) |
| 25                    | DUBL     | IN     | DUB LOW                                   | 73      | DET3     | IN     | DETECTION FOR SUB CARRIER POLARITY (H TIMING PULSE) |
| 26                    | IFRM     | IN     | INCOME FRAME (REF 30Hz)                   | 74      | PALP     | IN     | PAL PULSE   |
| 27                    | VIDL     | IN     | DELAYED VERTICAL INTERVAL                 | 75      | VX01     | OUT    | CONTROL SIGNAL 1 FOR VX0                            |
| 28                    | INPH     | IN     | INCOME FRAMING                            | 78      | RBF      | IN     | REFERENCE VIDEO BURST FLAG                          |
| 29                    | HD       | OUT    | HORIZONTAL DRIVE PULSE                    | 77      | RBD1     | IN     | REFERENCE VIDEO GUNST                               |
| 30                    | RHD      | IN     | HORIZONTAL DRIVE PULSE (=TBC READ TIMING) | 79      | SCDL     | IN     | DELAYED 2FSC  |
| 31                    | VID1     | IN     | VIDEO #1                                  | 80      | WSC      | OUT    | DOUBLE SUB CARRIER (2 FSC)                          |
| 32                    | VID2     | IN     | VIDEO #2                                  | 81      | SEL1     | IN     | SELECT MODE (NTSC Ⓞ PAL Ⓞ)                          |
| 33                    | VID3     | IN     | VIDEO #3                                  | 82      | FS1      | IN     | FOUR SUB CARRIER 1 (4 FSC)                          |
| 34                    | VPH1     | IN     | VIDEO PHASE 1                             | 83      | SDET     | IN     | SYNC DETECTION                                      |
| 35                    | VPH2     | OUT    | VIDEO PHASE 2                             | 84      | SC01     | IN     | SUB CARRIER 0 (IC204 65P) INPUT NO. 1               |
| 36                    | CK1      | IN     | CLOCK 1                                   | 85      | PF81     | OUT    | COLOR FRAMING RESET PULSE (PAL)                     |
| 37                    | SHP1     | IN     | SAMPLE HOLD PULSE 1                       | 95      | LAJ      | OUT    | COLOR FRAMING RESET PULSE (NTSC)                    |
| 38                    | ER1      | OUT    | ERROR 1                                   | 96      | CF1      | IN     | COLOR FRAMING 1                                     |
| 39                    | WNO1     | OUT    | WINDOW 1                                  | 97      | RRFM     | IN     | REFERENCE FRAME                                     |
| 42                    | VID4     | IN     | VIDEO #4                                  | 100     | EGP      | IN     | EQUALIZING PULSE                                    |
| 43                    | ER2      | OUT    | ERROR 2                                   |         |          |        |   |
| 44                    | SHP2     | IN     | SAMPLE HOLD PULSE 2                       |         |          |        |   |

| IC204 SYNC GEN GATE ARRAY PIN FUNCTION (μPD65040GF144) |          |        |  |         |          |        |                             |
|--|----------|--------|--|---------|----------|--------|-----------------------------|
| PIN NO.  | PIN NAME | IN/OUT | FUNCTION                                   | PIN NO. | PIN NAME | IN/OUT | FUNCTION                    |
| 1  | RST      | IN     | TEST RESET                                 | 41      | RHS      | OUT    | REFERENCE H SYNC            |
| 2  | VDD      | IN     | +5V  | 42      | VDD      | IN     | +5V                         |
| 3  | GND      | IN     |  | 43      | GND      | IN     |                             |
| 4  | MOD1     | IN     | [0] NTSC [1] PAL                           | 44      | VSP      | OUT    | V SEPARATION PULSE          |
| 5  | MOD2     | IN     | [0] NTSC [1] PAL                           | 45      | SHP2     | OUT    | COLOR SAMPLE & HOLD PULSE 2 |
| 6  | MBEL     | IN     | H SYNC SELECT                              | 46      | CF       | OUT    | COLOR FRAMING SIGNAL        |
| 7  | PFBW     | IN     | V-BLK SET (NTSC) COLOR FRAMING CONT. (PAL) | 47      | SSEL     | IN     | HR ADJUST RANGE             |
| 8  | LSEL     | IN     | V SYNC SELECT                              | 48      | CS2      | OUT    | COMPOSITE SYNC              |
| 9  | CKSW     | IN     | VIDEO PHASE CLOCK SELECT                   | 49      | LPF1     | IN     | LPF FOR FRAMING             |
| 10   | TST1     | IN     | TEST CONTROL                               | 50      | VPH1     | IN     | VIDEO PHASE MMV             |
| 11   | TST2     | IN     | TEST CONTROL                               | 51      | SDET     | OUT    | REF SYNC DETECT             |
| 12   | BD1      | IN     | BURST DETECT                               | 52      | RHS      | OUT    | REF SYNC VIDEO EQ PULSE     |
| 13   | CK2      | IN     | 13.5MHz CLOCK                              | 53      | CBU      | OUT    | 125kHz                      |
| 14   | CK1      | IN     | 13.5MHz CLOCK                              | 54      | YBU      | OUT    | 2.25MHz                     |
| 15   | IFR2     | IN     | INCOME VIDEO FRAMING                       | 55      | CBF      | OUT    | C-BURST FLAG                |
| 16   | LPF2     | IN     | LPF FOR FRAMING                            | 56      | YBF      | OUT    | Y-BURST FLAG                |
| 17   | SSEL     | IN     | SOURCE SEARCH 30Hz SELECT                  | 57      | SHP1     | OUT    | CK1 SAMPLE & HOLD PULSE     |
| 18   | PINH     | IN     | VISC CONTROL ON/OFF                        | 58      | HO       | OUT    | TRAPEZOID H PULSE           |
| 19   | ADV1     | IN     | ADVANCE 1 FOR V SELECT                     | 59      | IFR1     | OUT    | IN VIDEO FRAMING            |
| 20   | ADV2     | IN     | ADVANCE 2 FOR 30Hz SELECT                  | 60      | RYS      | OUT    | R-Y (C) SYNC                |
| 21   | RPH      | IN     | R/P HEAD SELECT                            | 61      | 30Hz     | OUT    | SERVO CONTROL 30Hz          |
| 22   | GND      | IN     |  | 62      | GND      | IN     |                             |
| 23   | VDD      | IN     | +5V  | 63      | VDD      | IN     | +5V                         |
| 24   | TRP      | IN     | TRAPEZOID FOR PLL                          | 64      | RFRM     | OUT    | REF FRAMING                 |
| 25   | SCC1     | IN     | SC PHASE CONTROL                           | 65      | SC0      | OUT    | SUBARRIER                   |
| 26   | SCC2     | IN     | SC PHASE CONTROL                           | 66      | ADBF     | OUT    | ADVANCE BURST FLAG          |
| 27   | LAL1     | IN     | COLOR FRAMING RESET                        | 67      | PALP     | OUT    | PAL (L) SE(0.5Hz)           |
| 28   | IVS      | IN     | INCOME VIDEO V SYNC                        | 68      | CN8K     | OUT    | CHROMA DIGITAL BLANKING     |
| 29   | HR       | IN     | H SYNC RESET                               | 69      | CS1      | OUT    | COMPOSITE SYNC              |
| 30   | ISV      | IN     | IN VIDEO COMP SYNC                         | 70      | EQP      | OUT    | EQUALIZER PULSE             |
| 31   | PSY      | IN     | REF VIDEO COMP SYNC                        | 71      | BF       | OUT    | BURST FLAG                  |
| 32   | GND      | IN     |  | 72      | VIP      | OUT    | 10 LINE PULSE               |
| 33   | VPH2     | IN     | VIDEO PHASE MMV                            | 73      | VP       | OUT    | V PULSE                     |
| 34   | PST1     | IN     | VISC CONTROL 90° STEP                      | 74      | HO       | OUT    | HORIZONTAL DRIVE            |
| 35   | PST2     | IN     | VISC CONTROL 90° STEP                      | 75      | NCBK     | OUT    | COMBLANKING SIGNAL          |
| 36   | ADS1     | IN     | ADVANCE SET                                | 76      | CBK      | OUT    | COMBLANKING SIGNAL          |
| 37   | ADS2     | IN     | ADVANCE SET                                | 77      | YBK      | OUT    | Y DIGITAL BLANKING          |
| 38   | ADS3     | IN     | ADVANCE SET                                | 78      | SC1      | OUT    | SUBARRIER                   |
| 39   | ADS3     | IN     | ADVANCE SET                                | 79      | RHD      | OUT    | TBC E&D START               |
| 40   | ADS4     | IN     | ADVANCE SET                                | 80      | VO       | OUT    | VERTICAL DRIVE              |

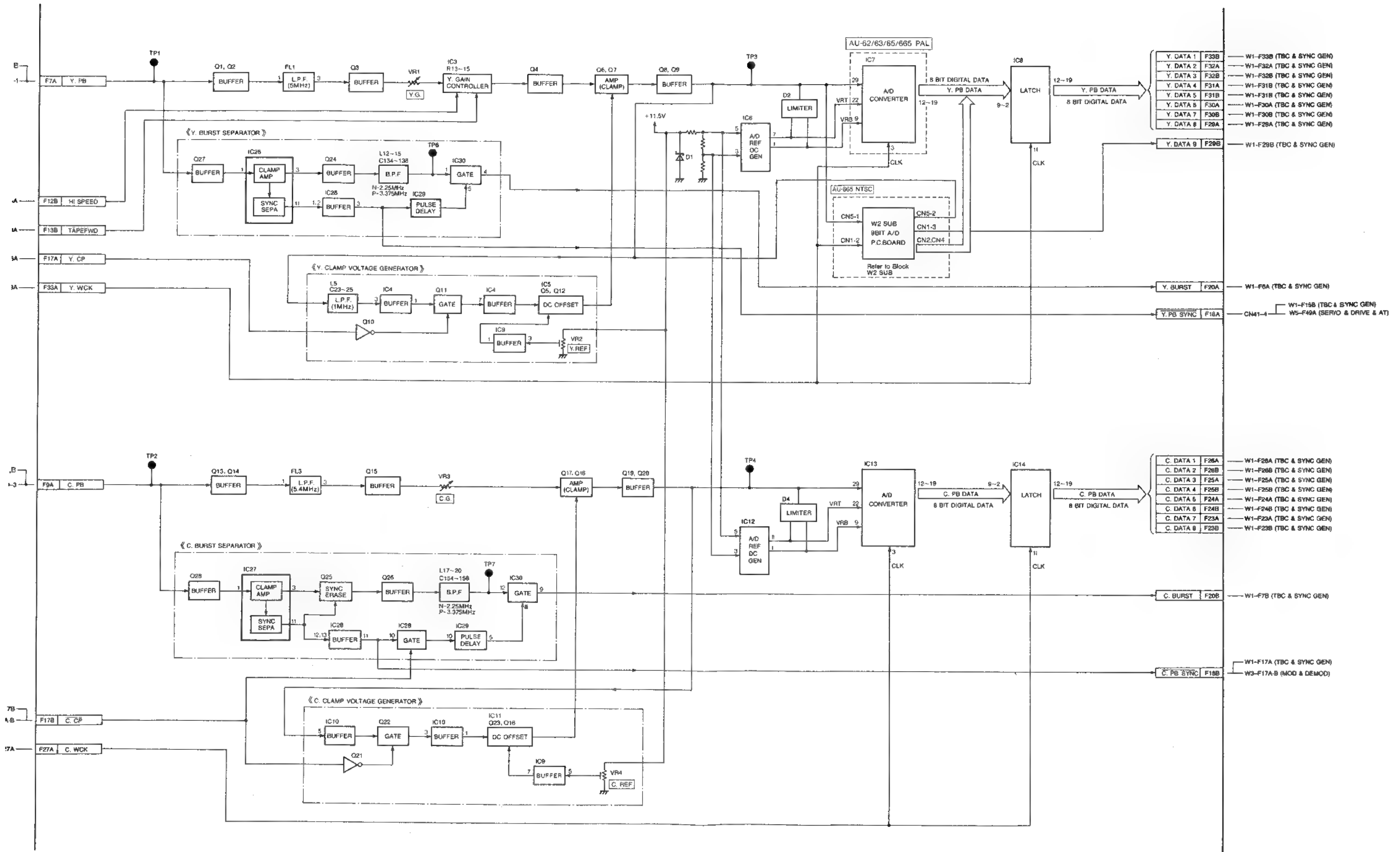
# W2 SUB(9BIT A/D) BLOCK DIAGRAM[FOR AU-665 NTSC]



# W2 (ENC)

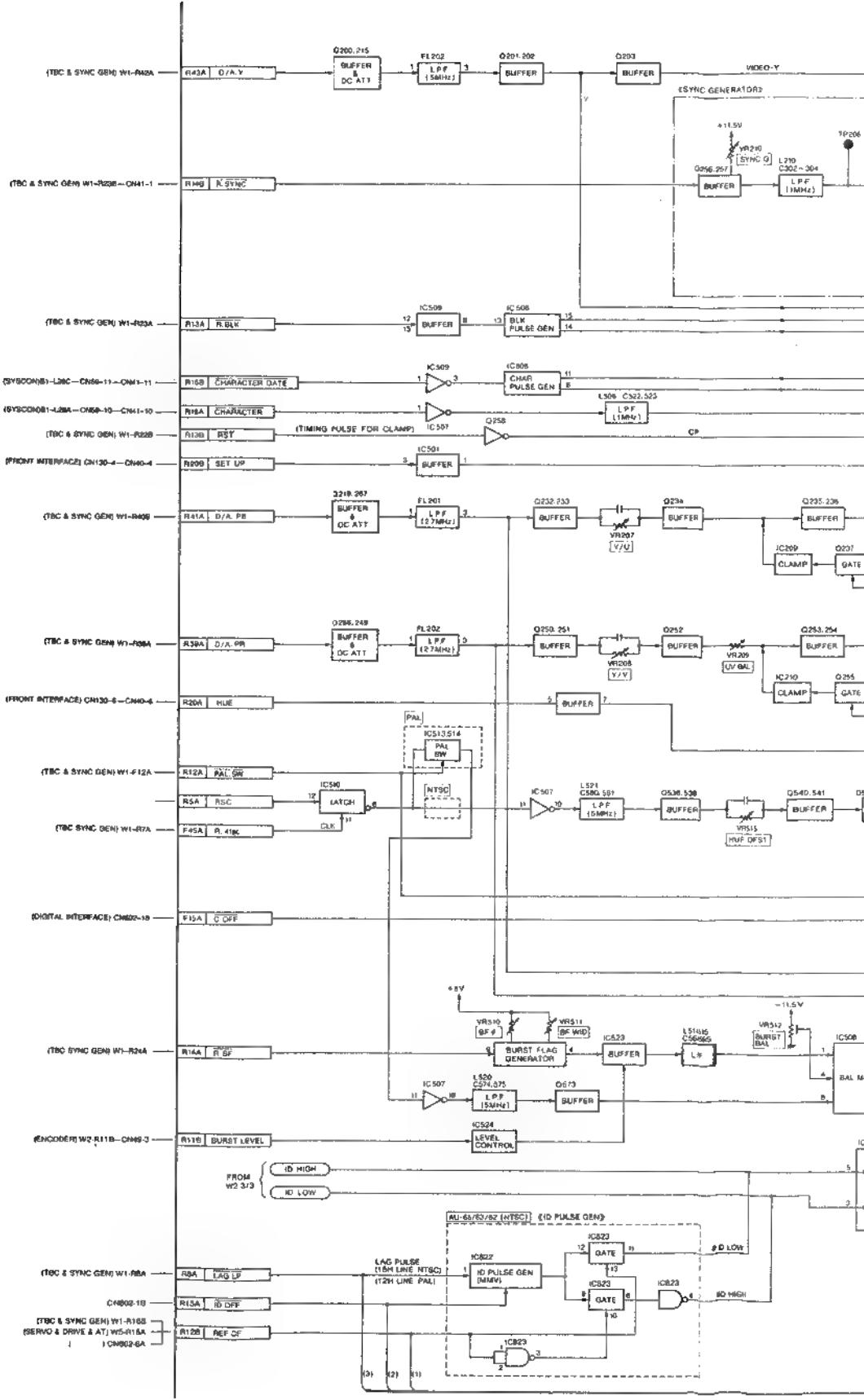


# W2 (ENCODER) BLOCK DIAGRAM 1/3 (A/D SECTION)

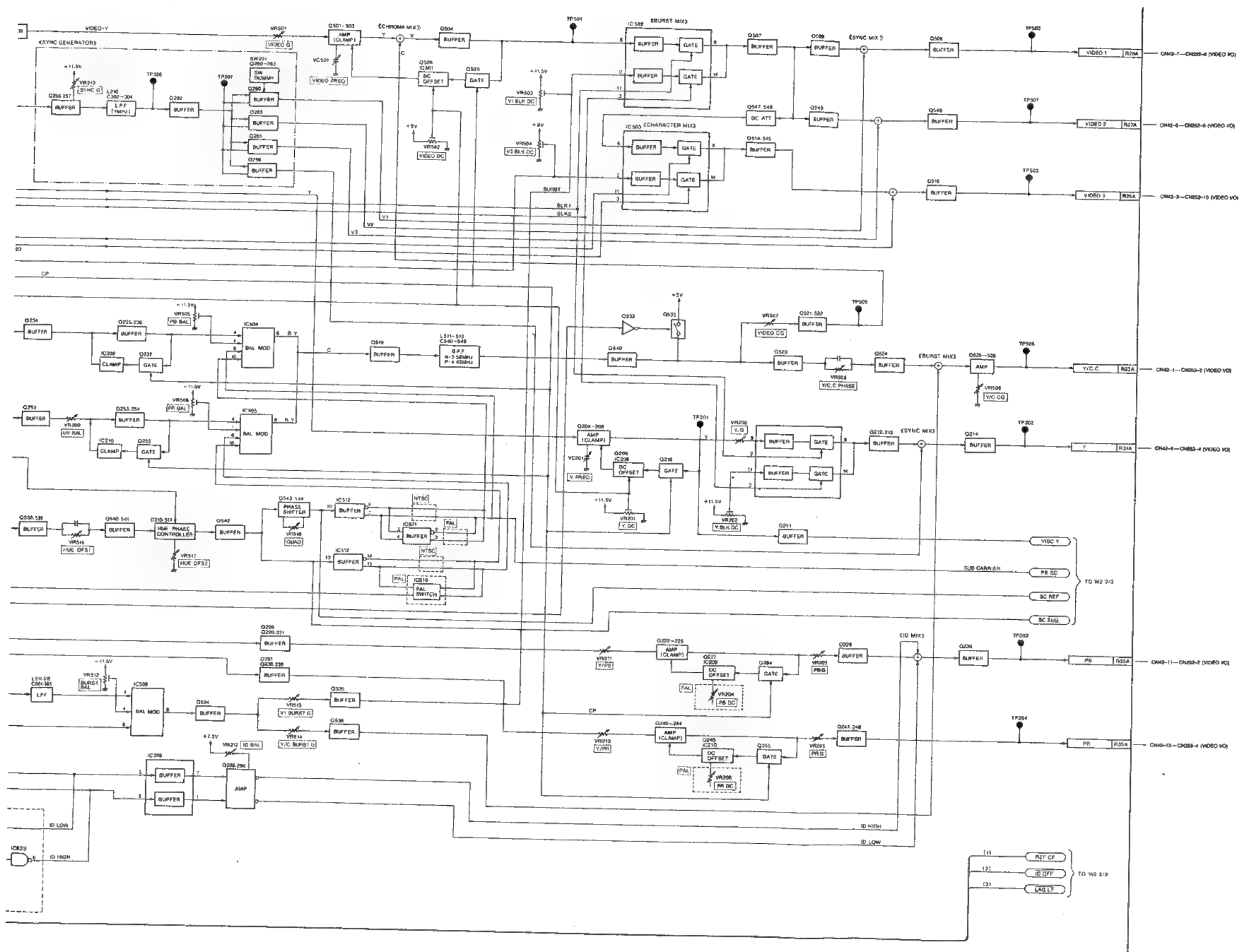


### ENCODER BLOCK DIAGRAM

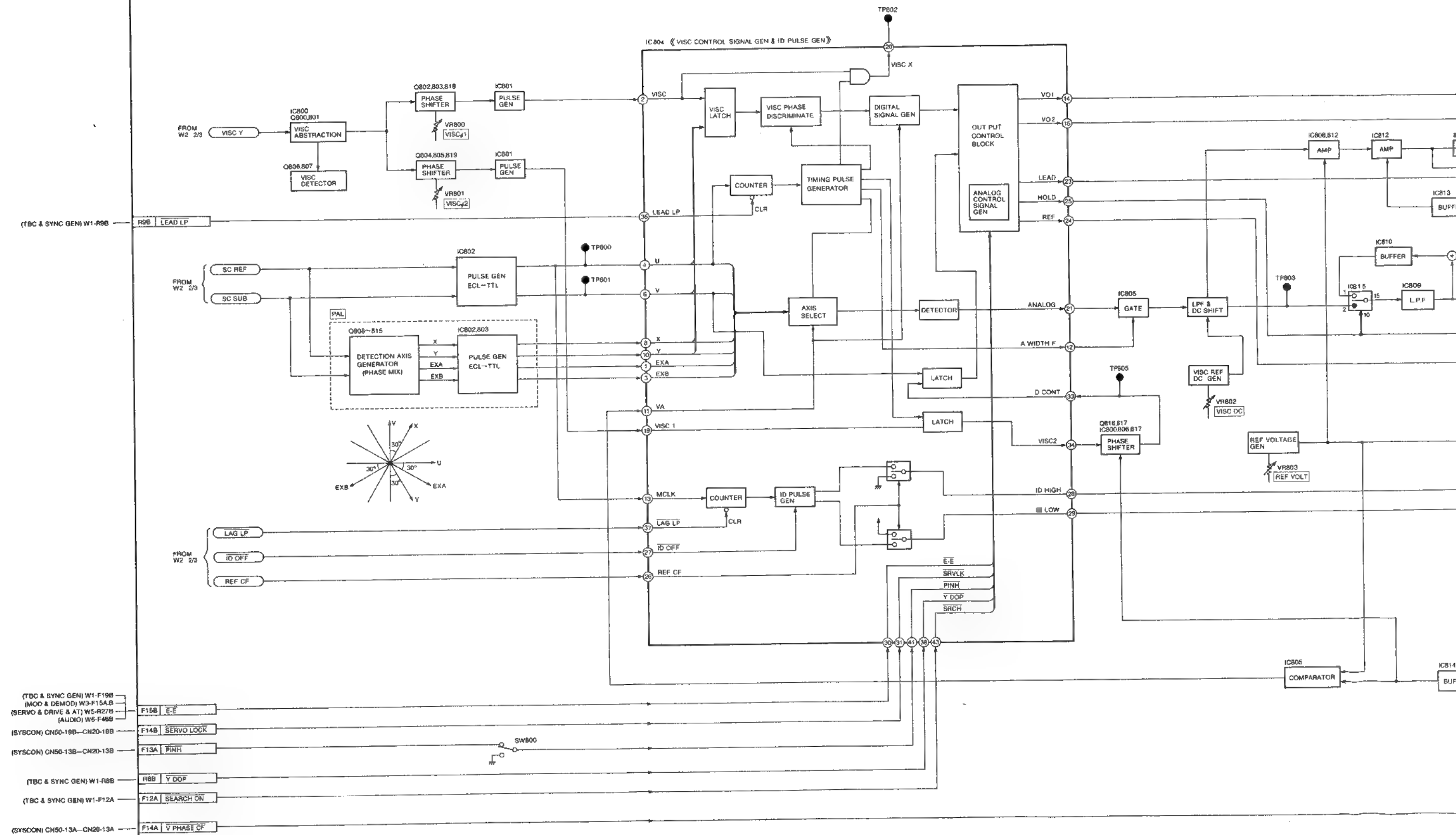
## W2 (ENCODER) BLOCK DIAGRAM



**( DIAGRAM 2/3 (ENCODE SECTION)**



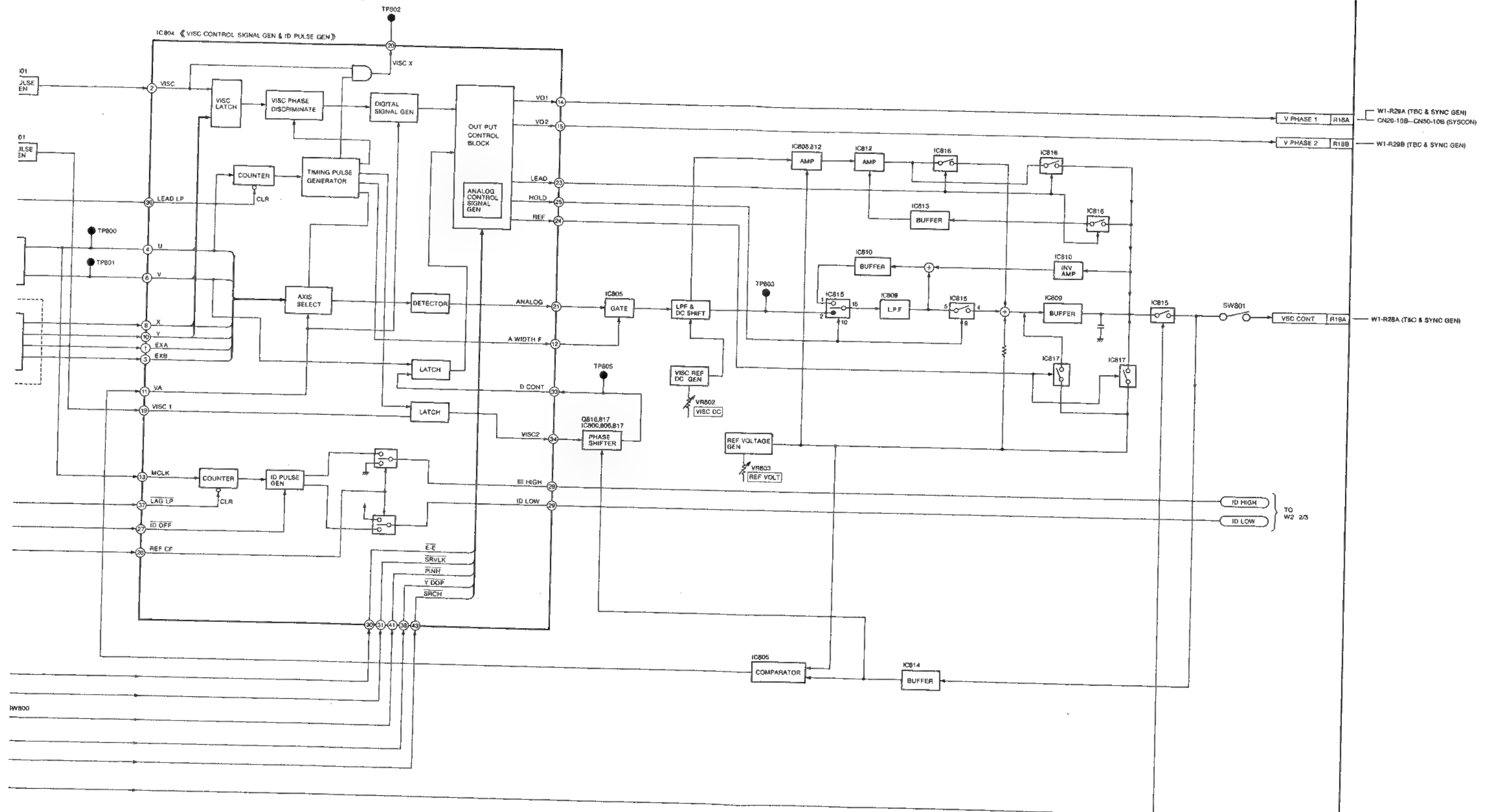
# W2 (ENCODER) BLOCK DIAGRAM 3/3 (VISC SECTION)



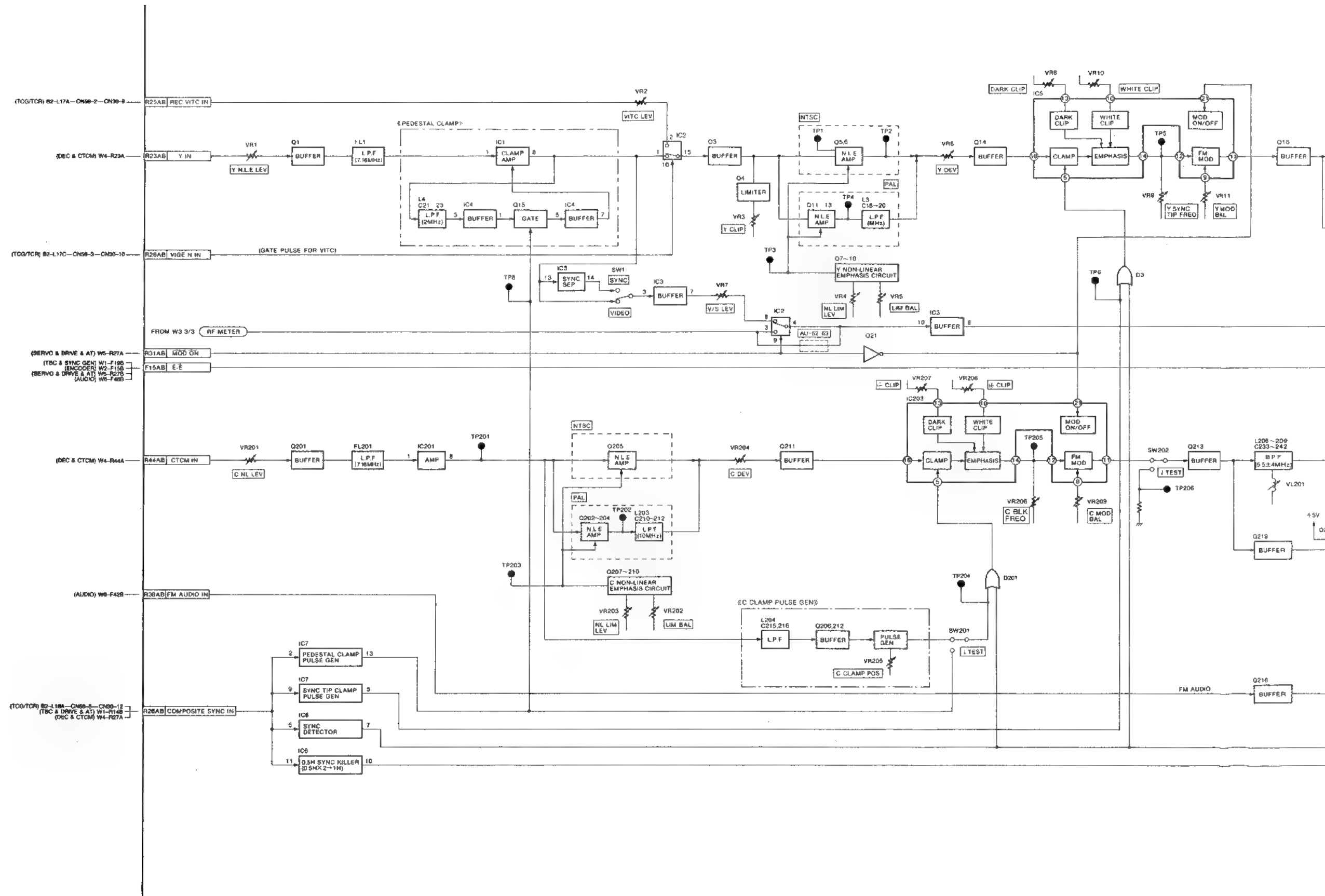


# RAM 3/3 (VISC SECTION)

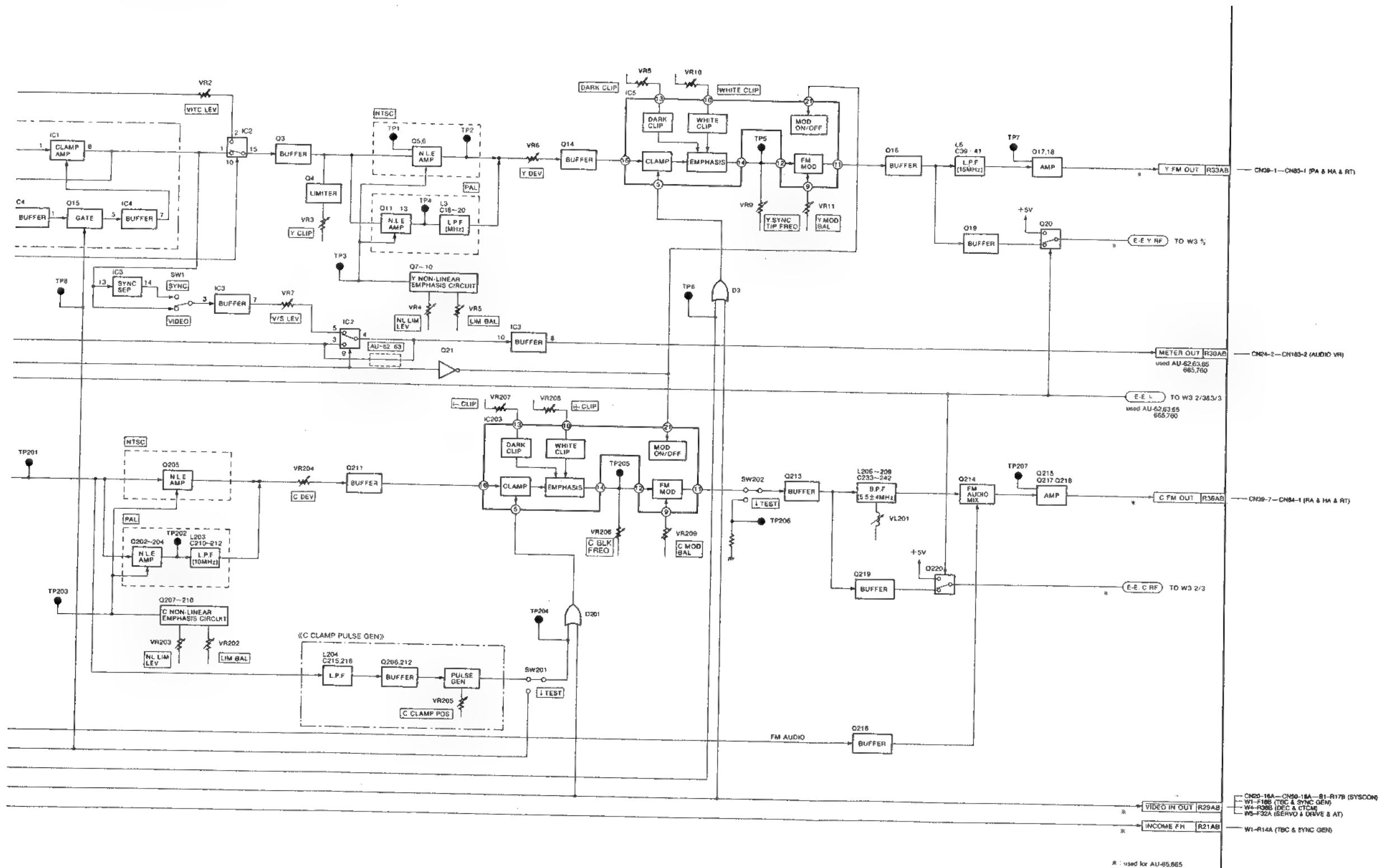
ENC  
BLO



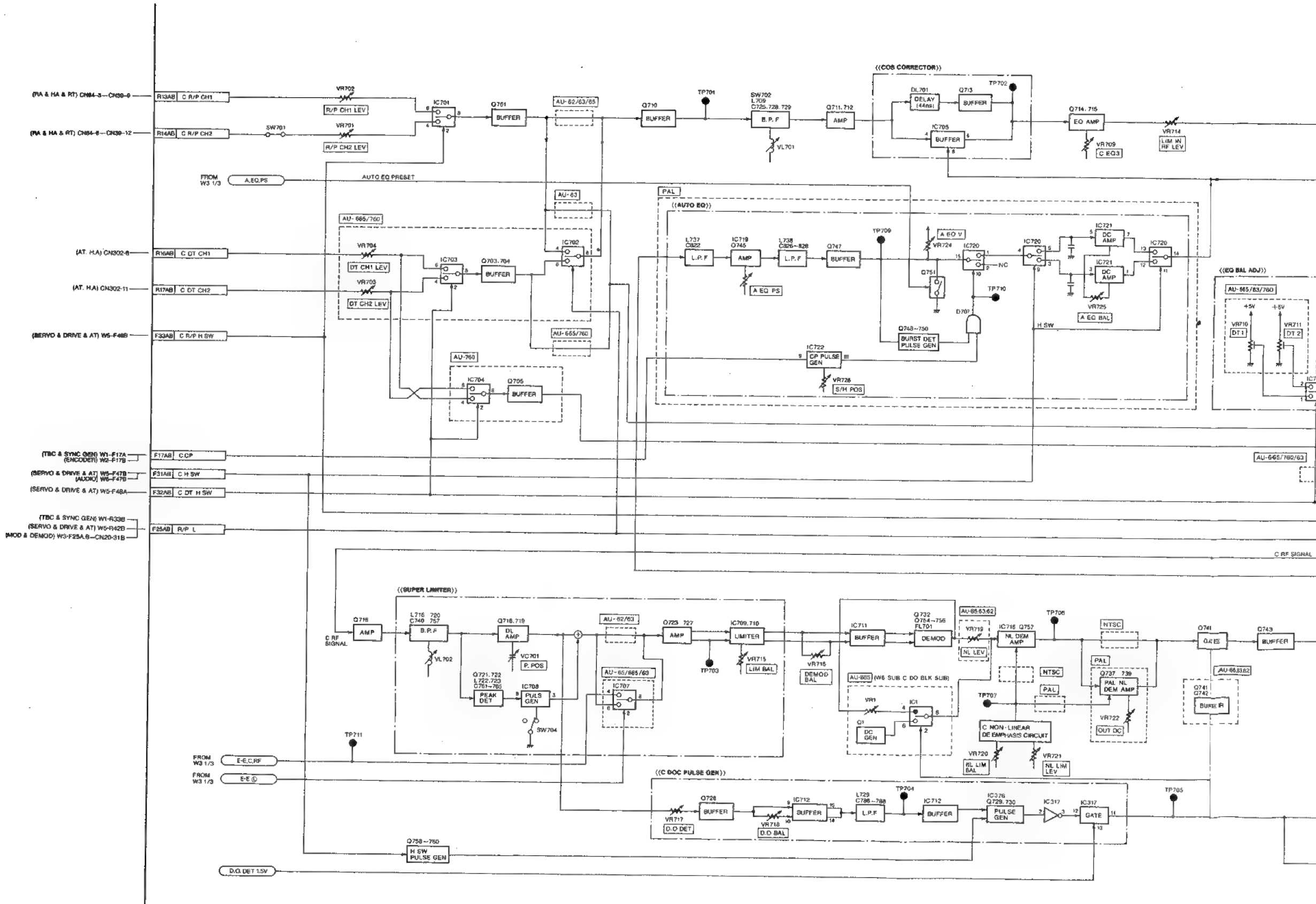
# W3 (MOD & DEMOD) BLOCK DIAGRAM 1/3 (MODULATION SECTION)



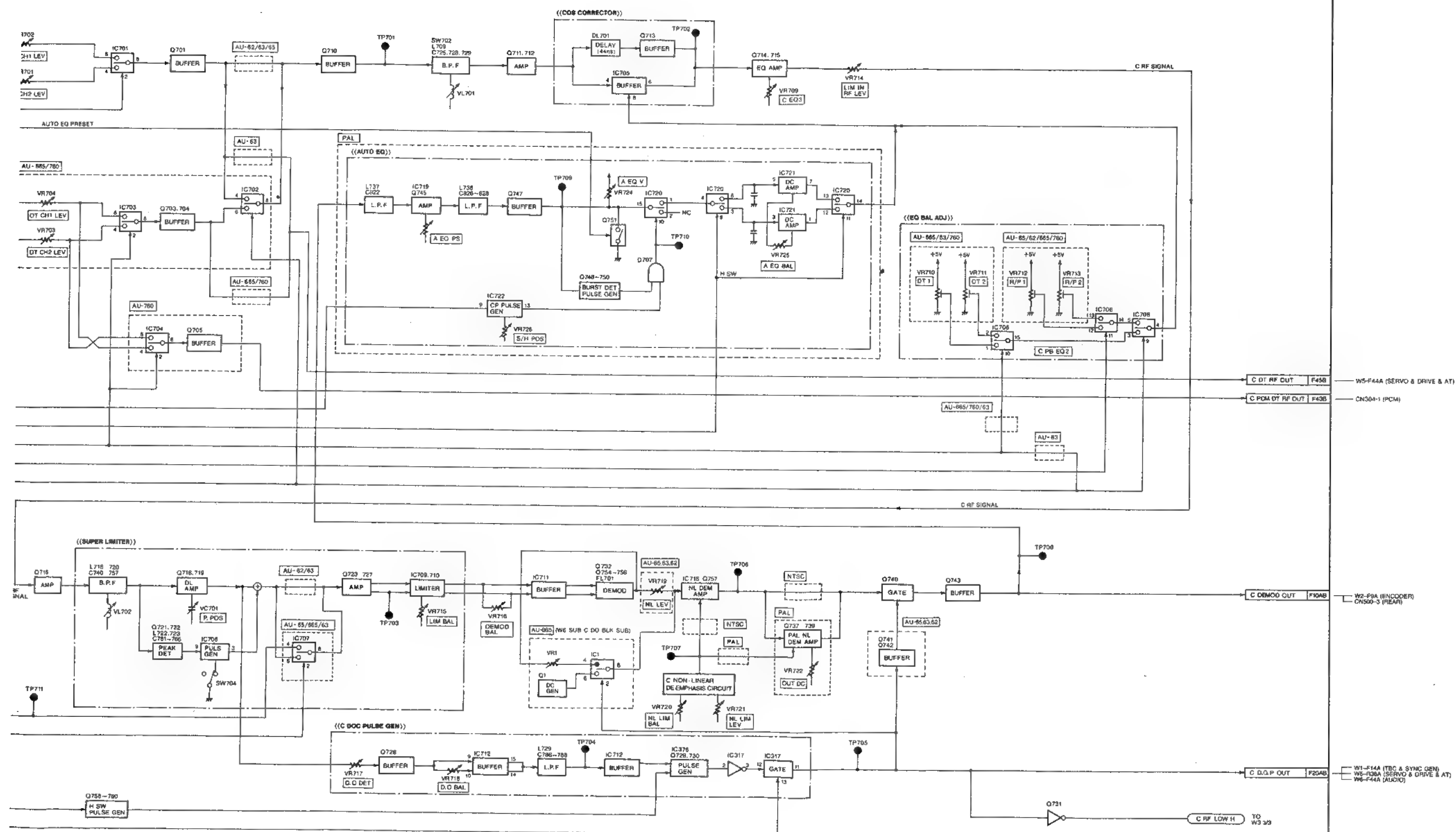
# LOCK DIAGRAM 1/3 (MODULATION SECTION)



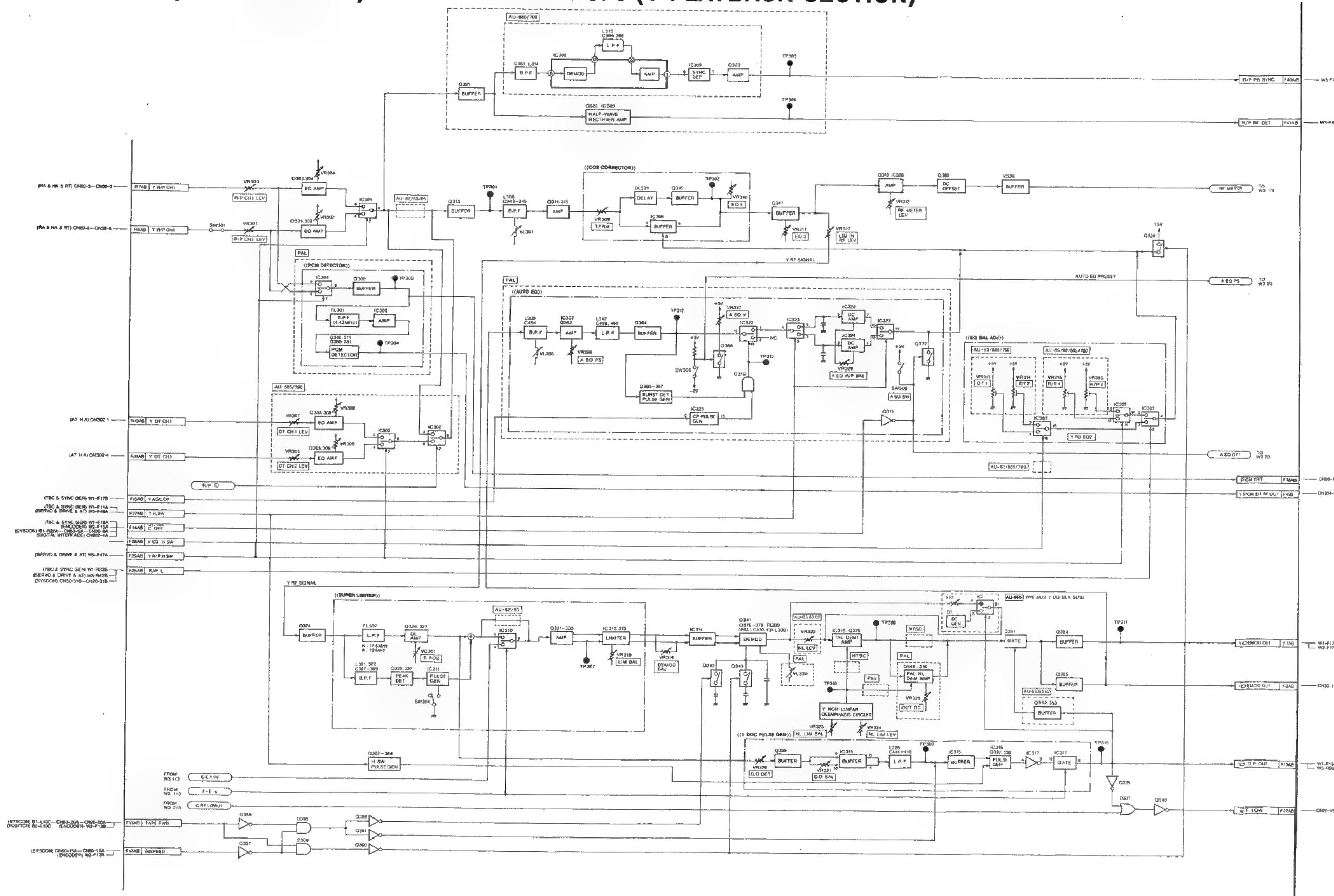
### W3(MOD & DEMOD) BLOCK DIAGRAM 2/3 (C PLAYBACK SECTION)



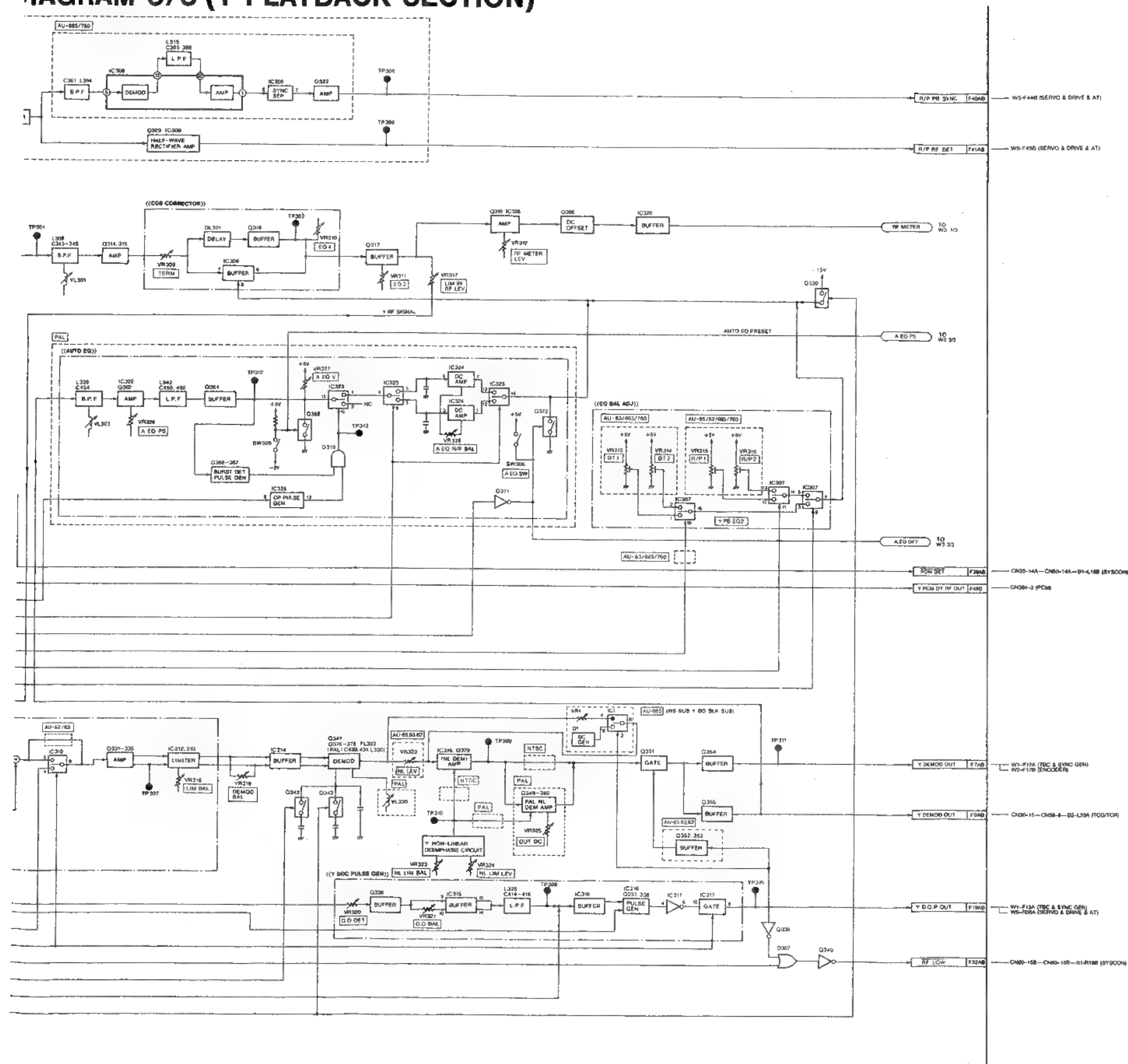
## MOD) BLOCK DIAGRAM 2/3 (C PLAYBACK SECTION)



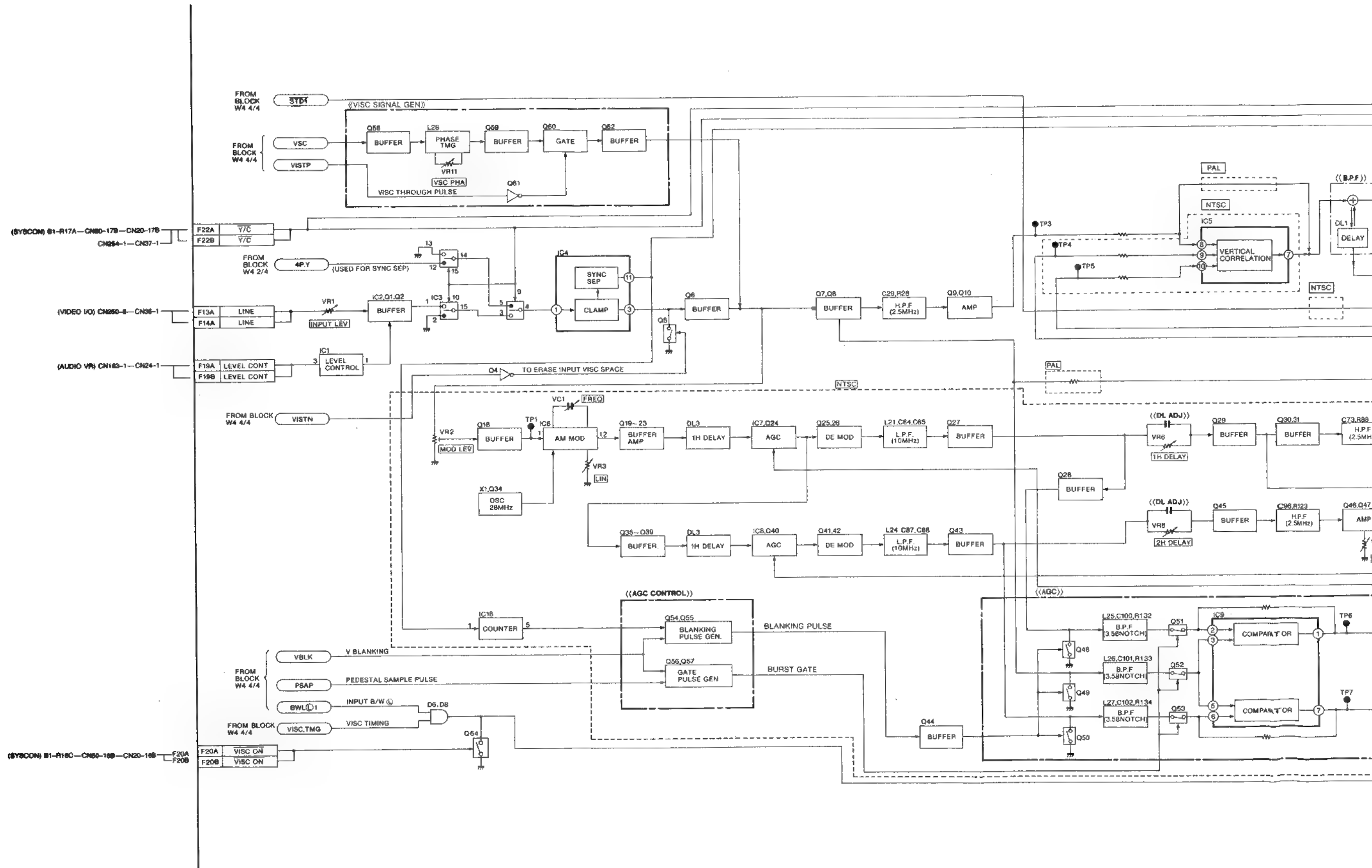
### W3(MOD & DEMOD) BLOCK DIAGRAM 3/3 (Y PLAYBACK SECTION)



# DIAGRAM 3/3 (Y PLAYBACK SECTION)

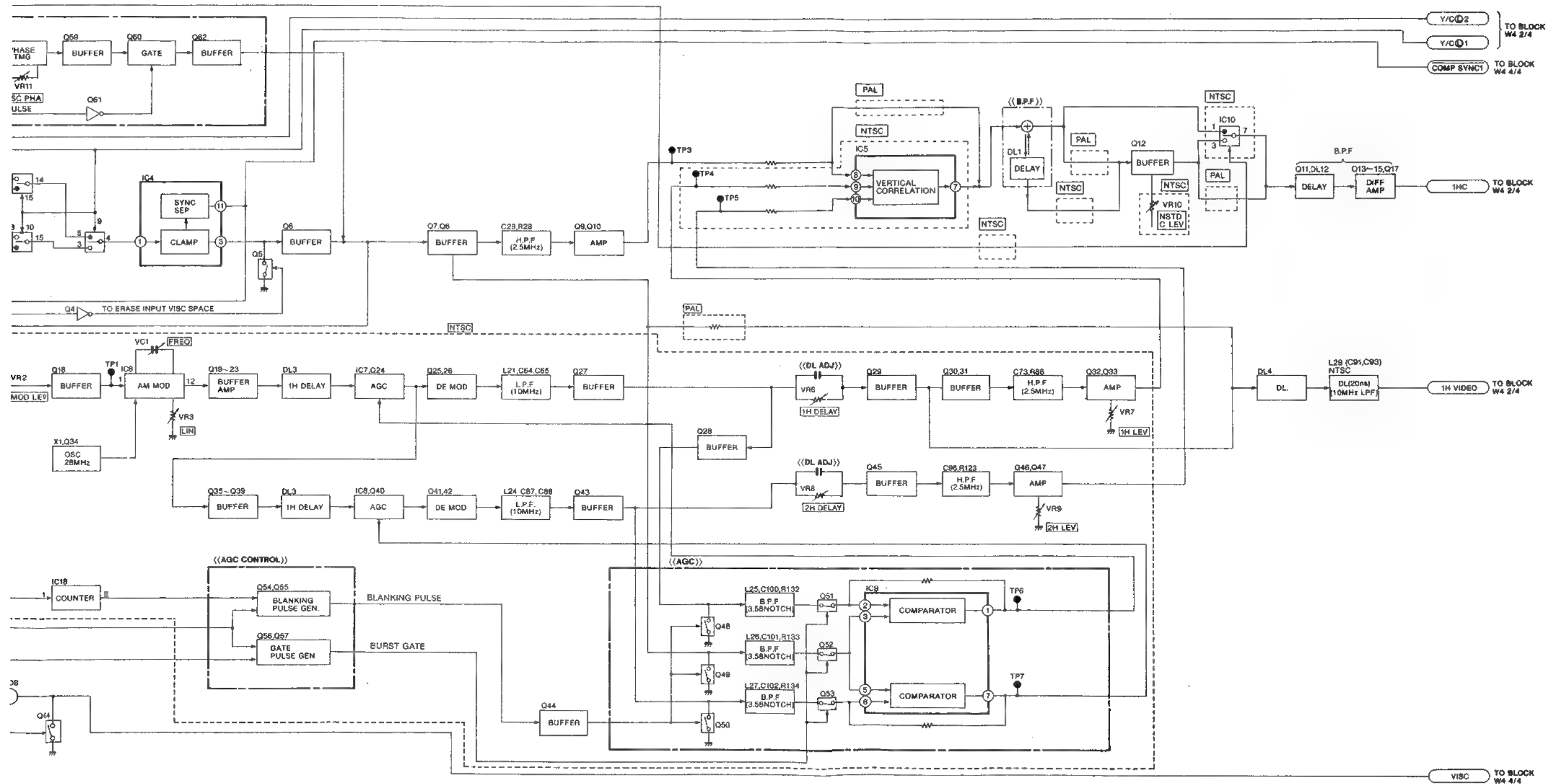


# W4 (DEC & CTCM) BLOCK DIAGRAM 1/4 (CHROMA SEP SECTION)[FOR AU-65, AU-665 (NTSC)]

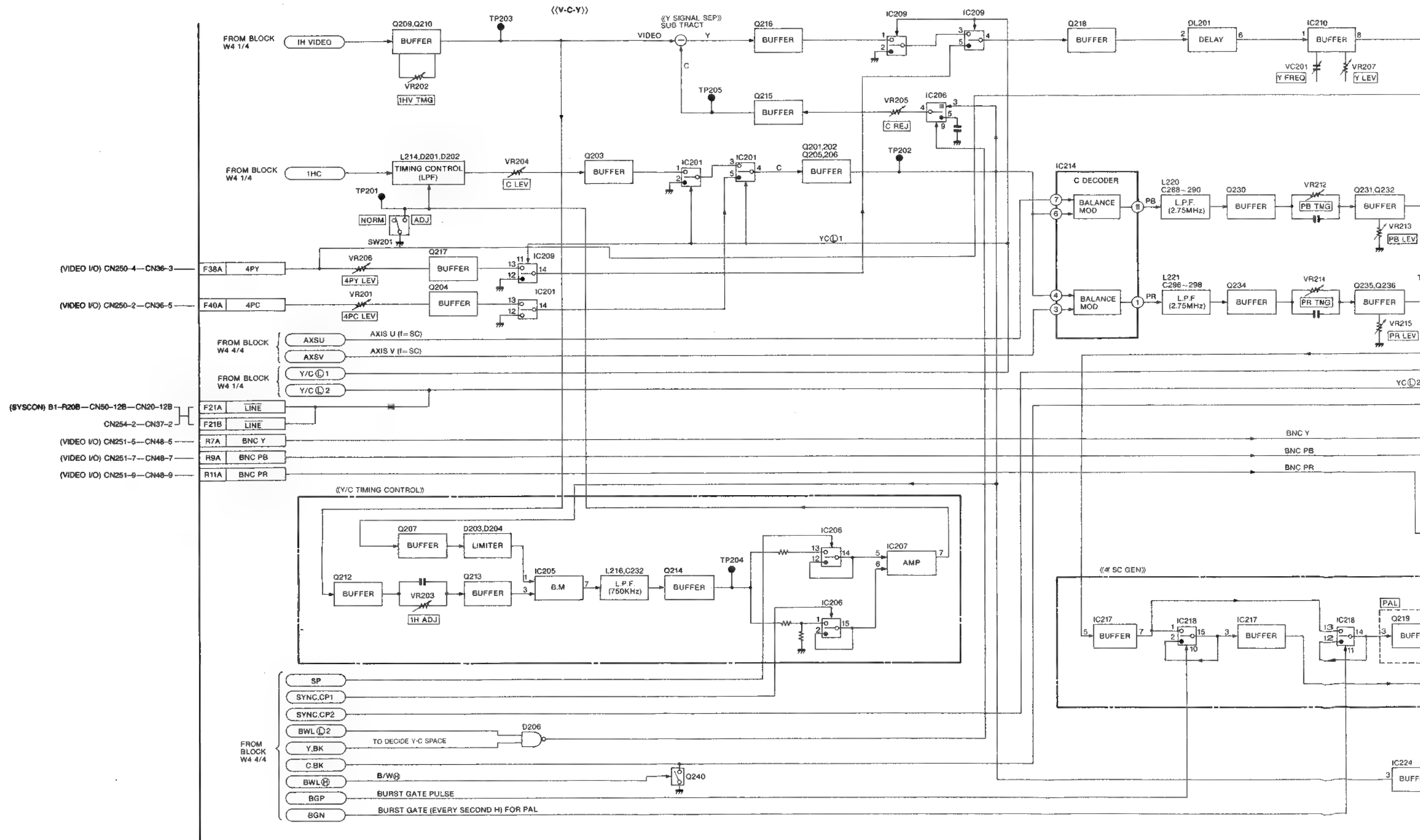




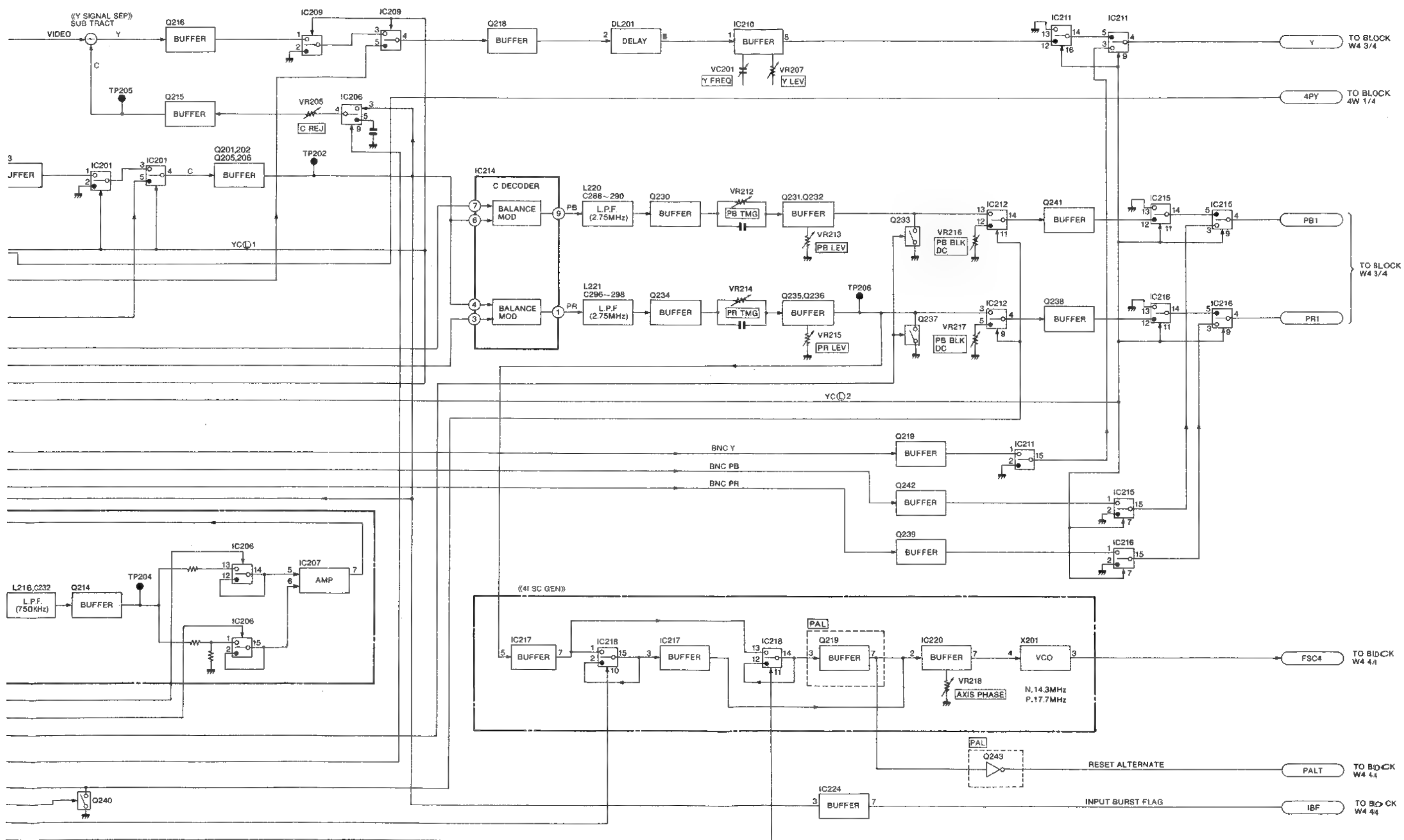
## BLOCK DIAGRAM 1/4 (CHROMA SEP SECTION)[FOR AU-65, AU-665 (NTSC)]



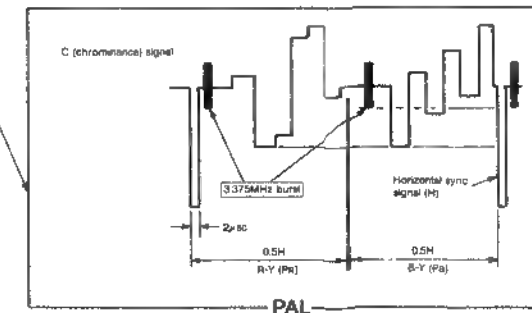
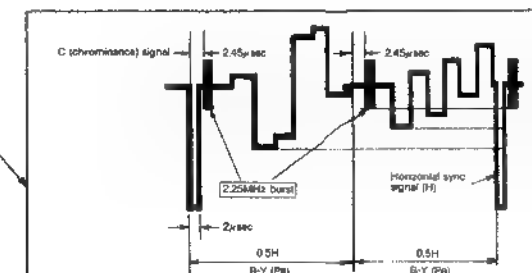
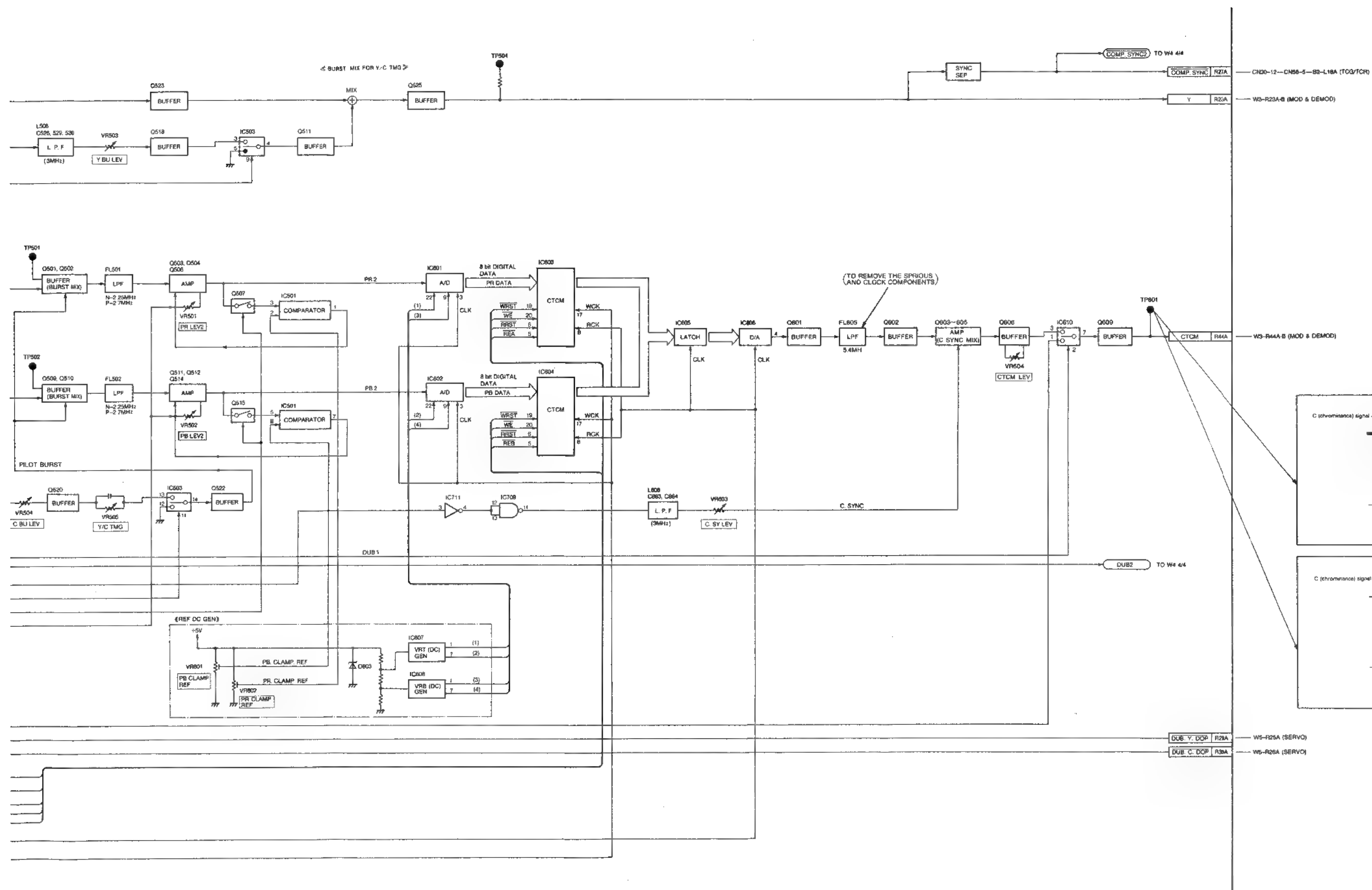
# W4 (DEC & CTCM) BLOCK DIAGRAM 2/4 (Y,P<sub>B</sub>,P<sub>R</sub> DECODER SECTION)[FOR AU-65, AU-665 (NTSC)]



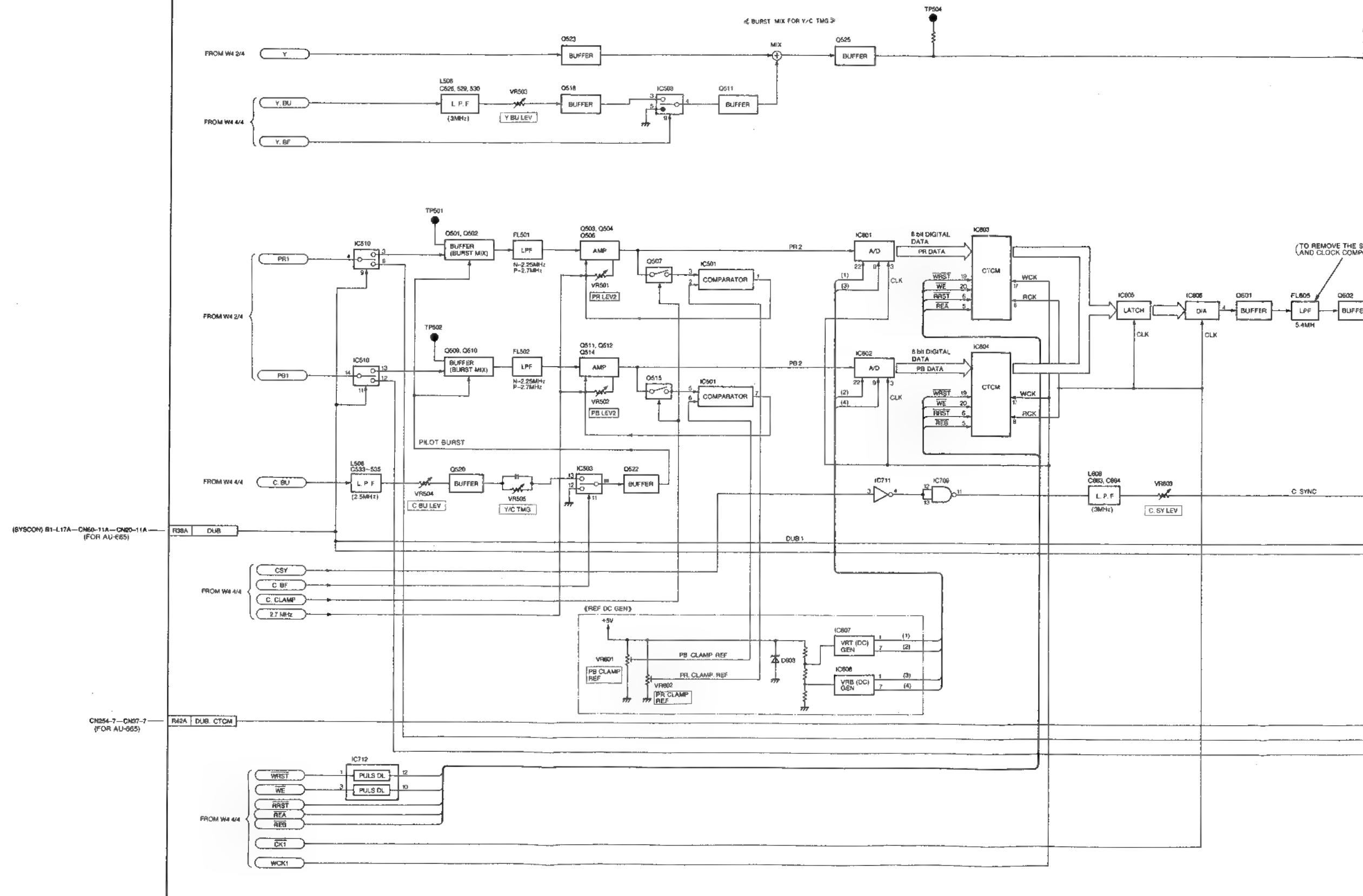
## AM 2/4 (Y,P<sub>B</sub>,P<sub>R</sub> DECODER SECTION) [FOR AU-65, AU-665 (NTSC)]



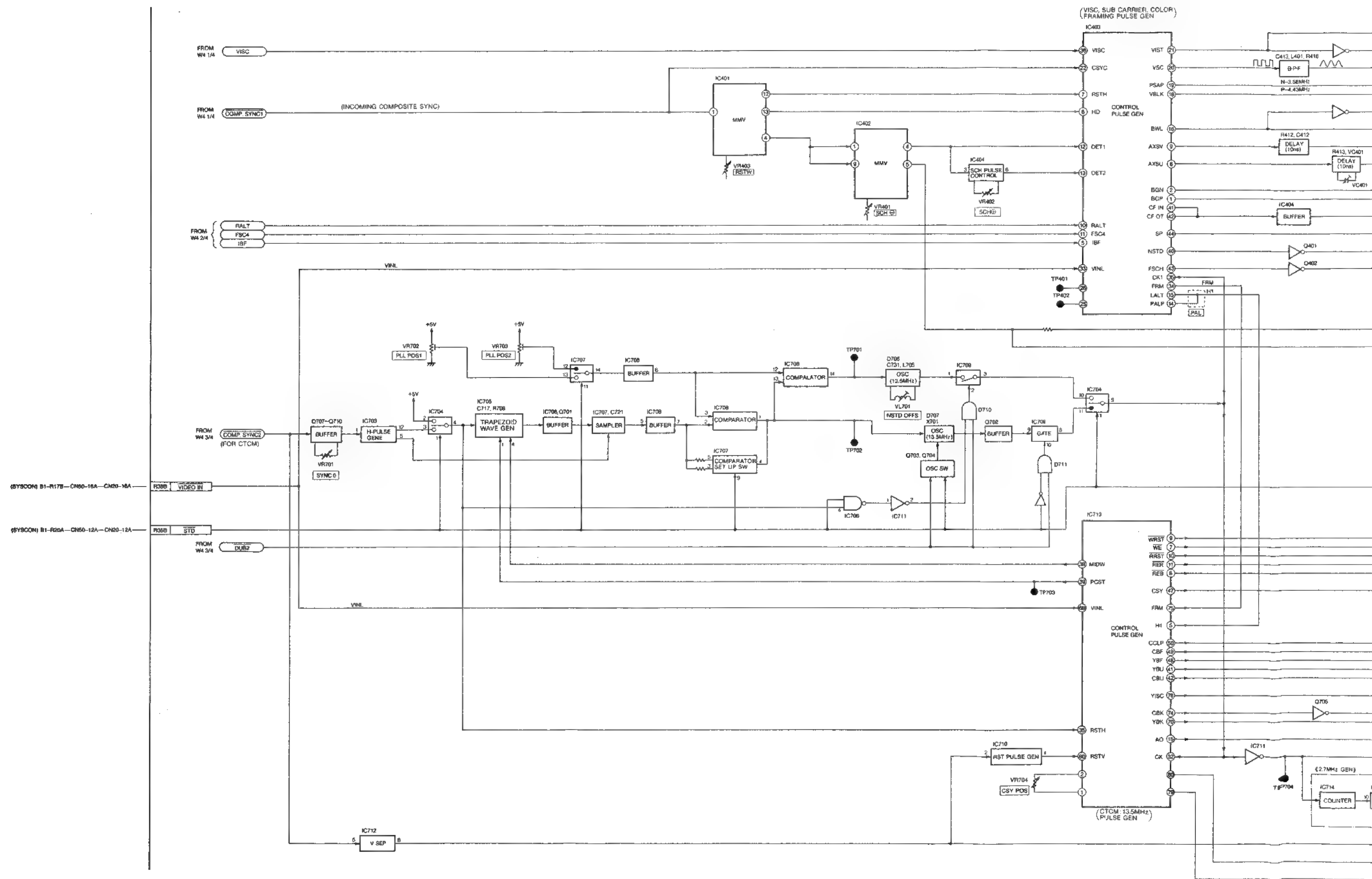
# 3M) BLOCK DIAGRAM 3/4 (CTCM SECTION)[FOR AU-65, AU-665 (NTSC)]



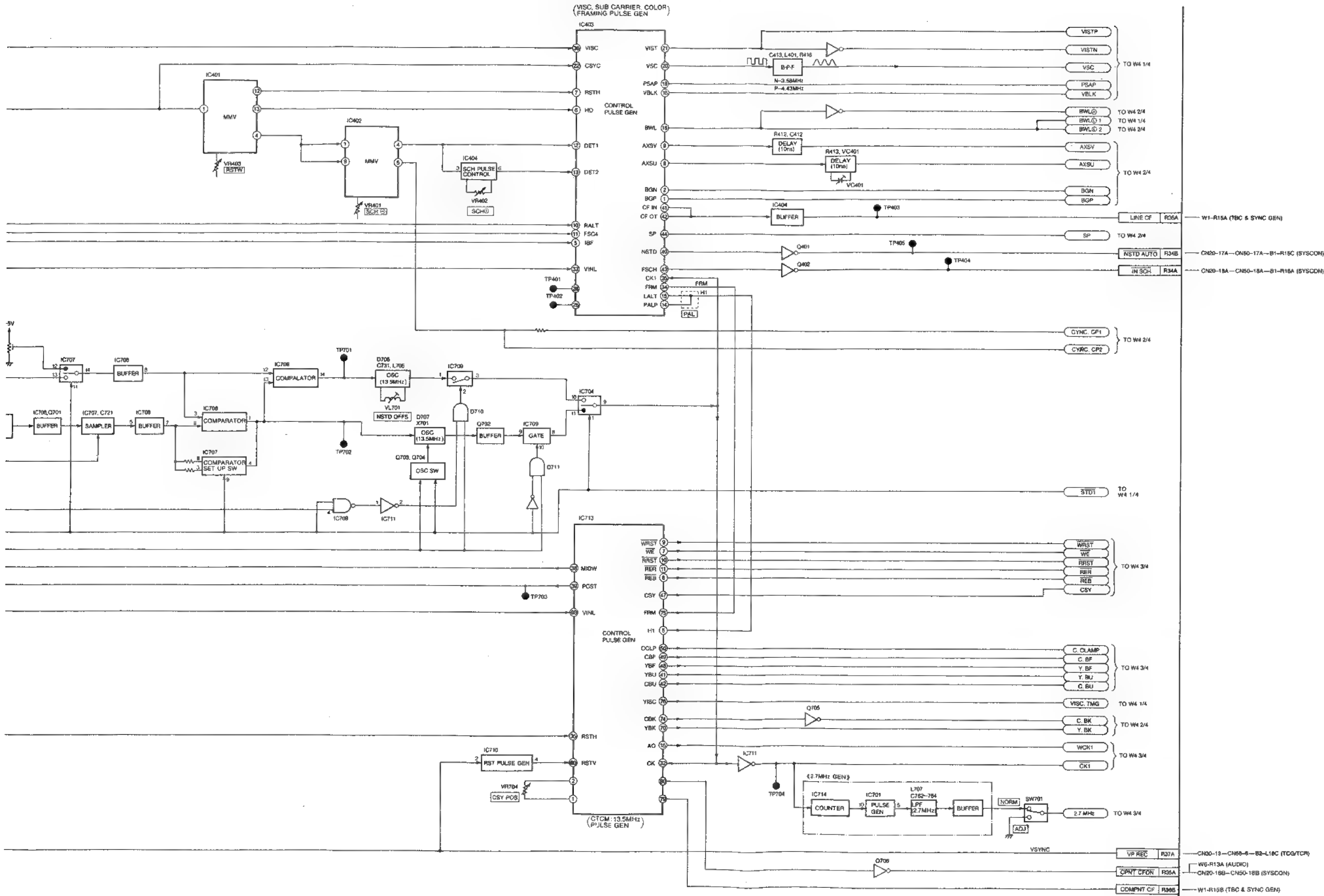
# W4 (DEC & CTCM) BLOCK DIAGRAM 3/4 (CTCM SECTION)[FOR AU-65, AU-665 (NTSC)]



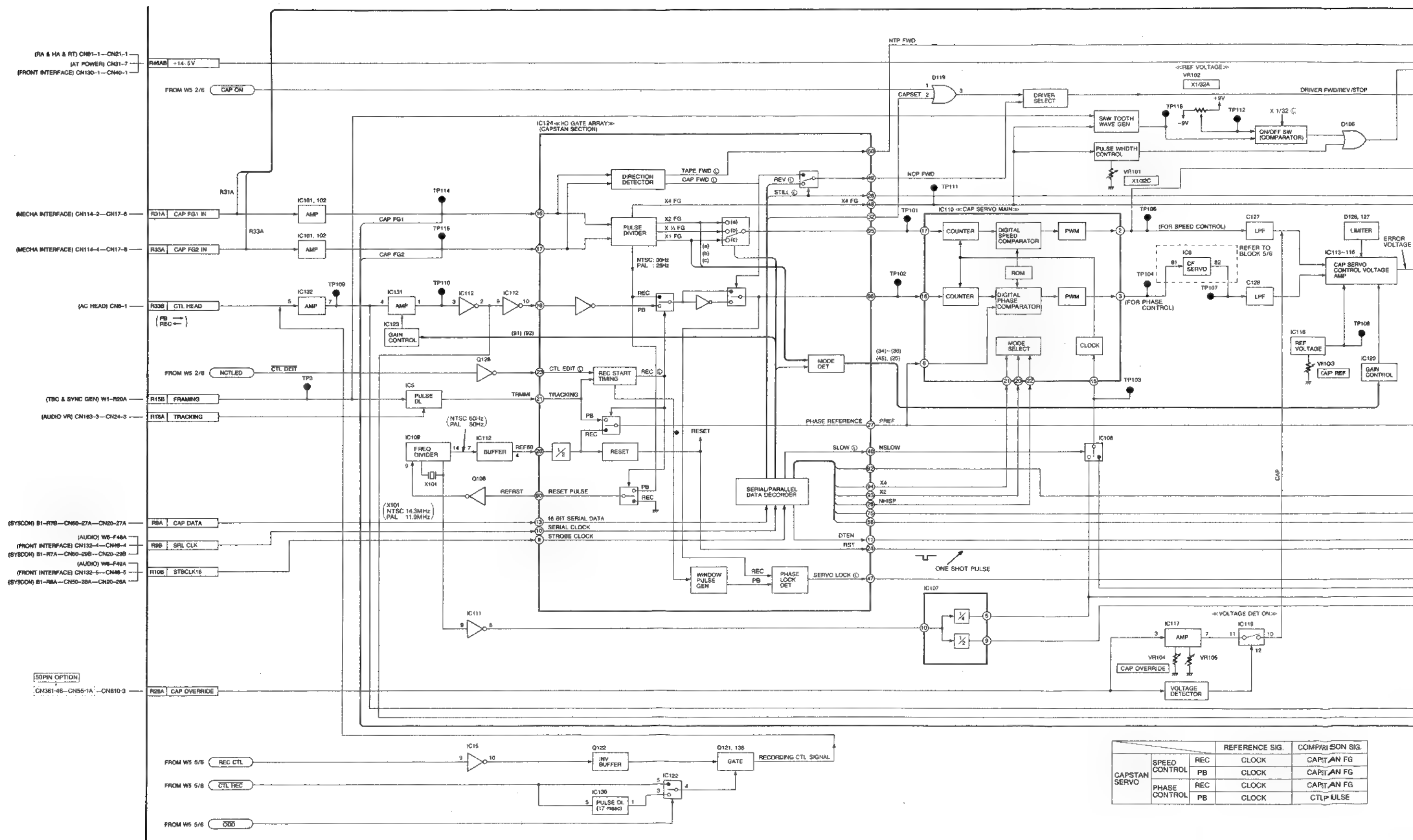
# W4 (DEC & CTCM) BLOCK DIAGRAM 4/4 (CONTROL PULSE GENERATION SECTION)[FOR AU-65, AU-665]



## DIAGRAM 4/4 (CONTROL PULSE GENERATION SECTION)[FOR AU-65, AU-665 (NTSC)]



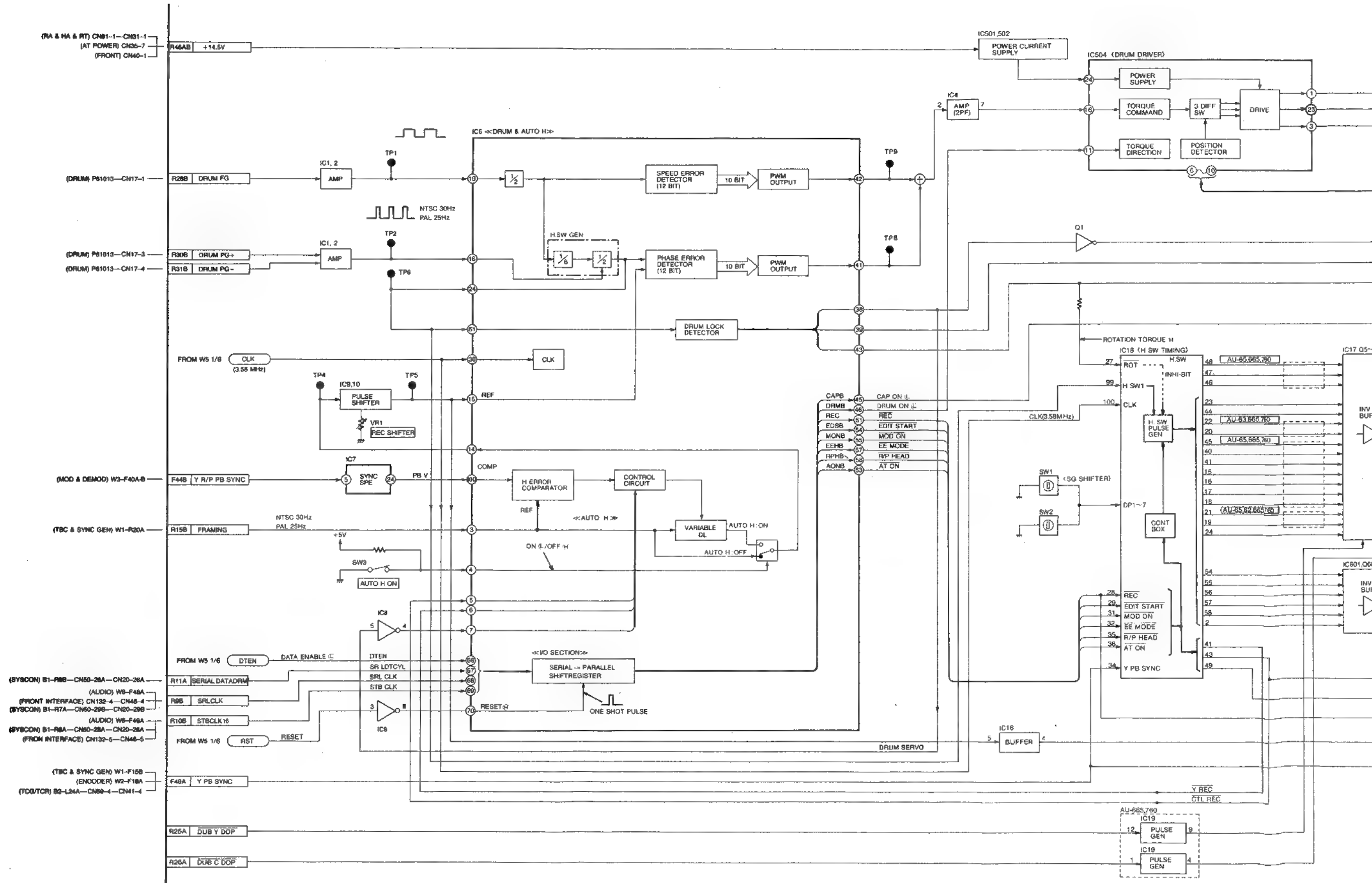
## W5 (SERVO) BLOCK DIAGRAM 1/6 (CAPSTAN SERVO SECTION)



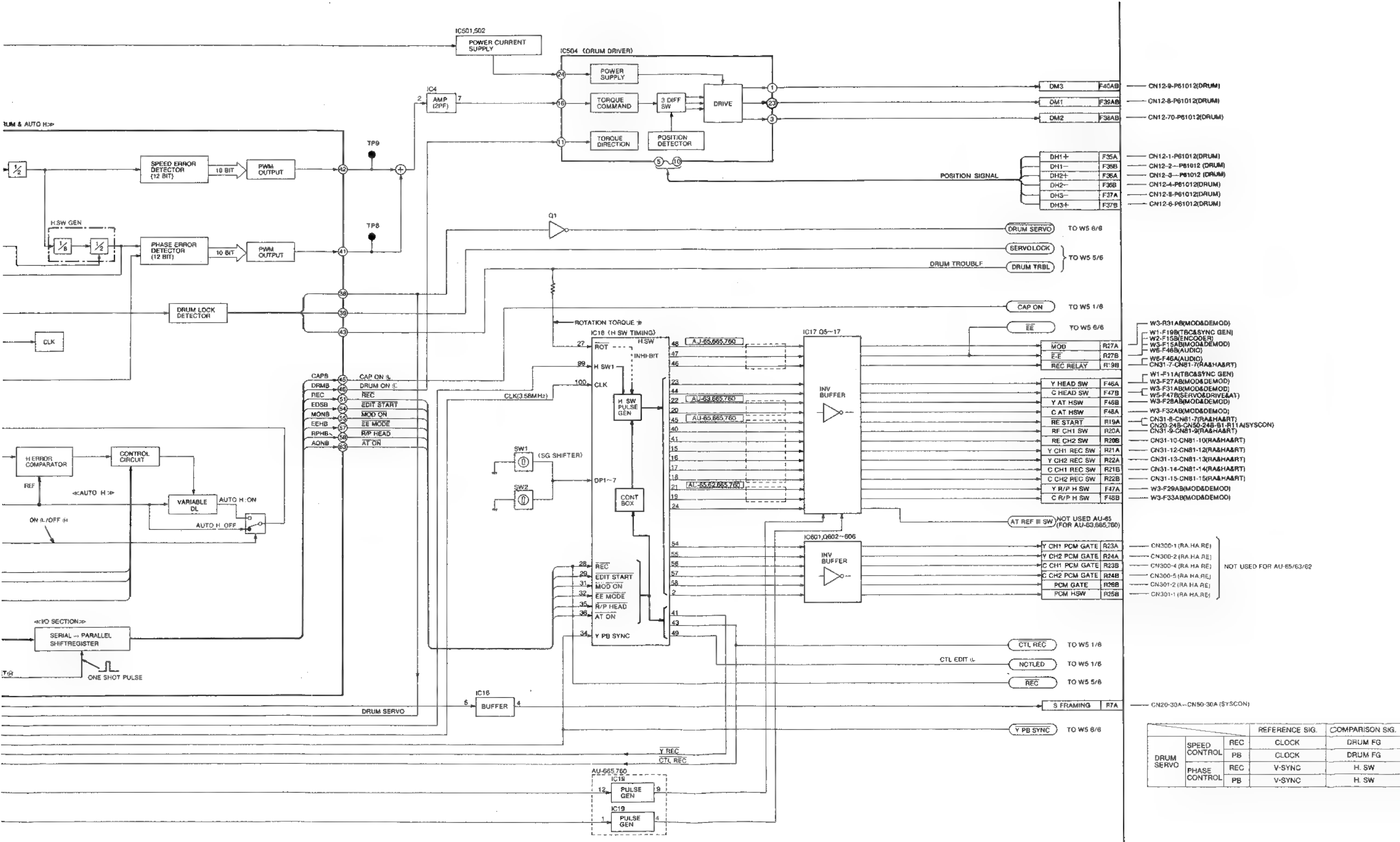




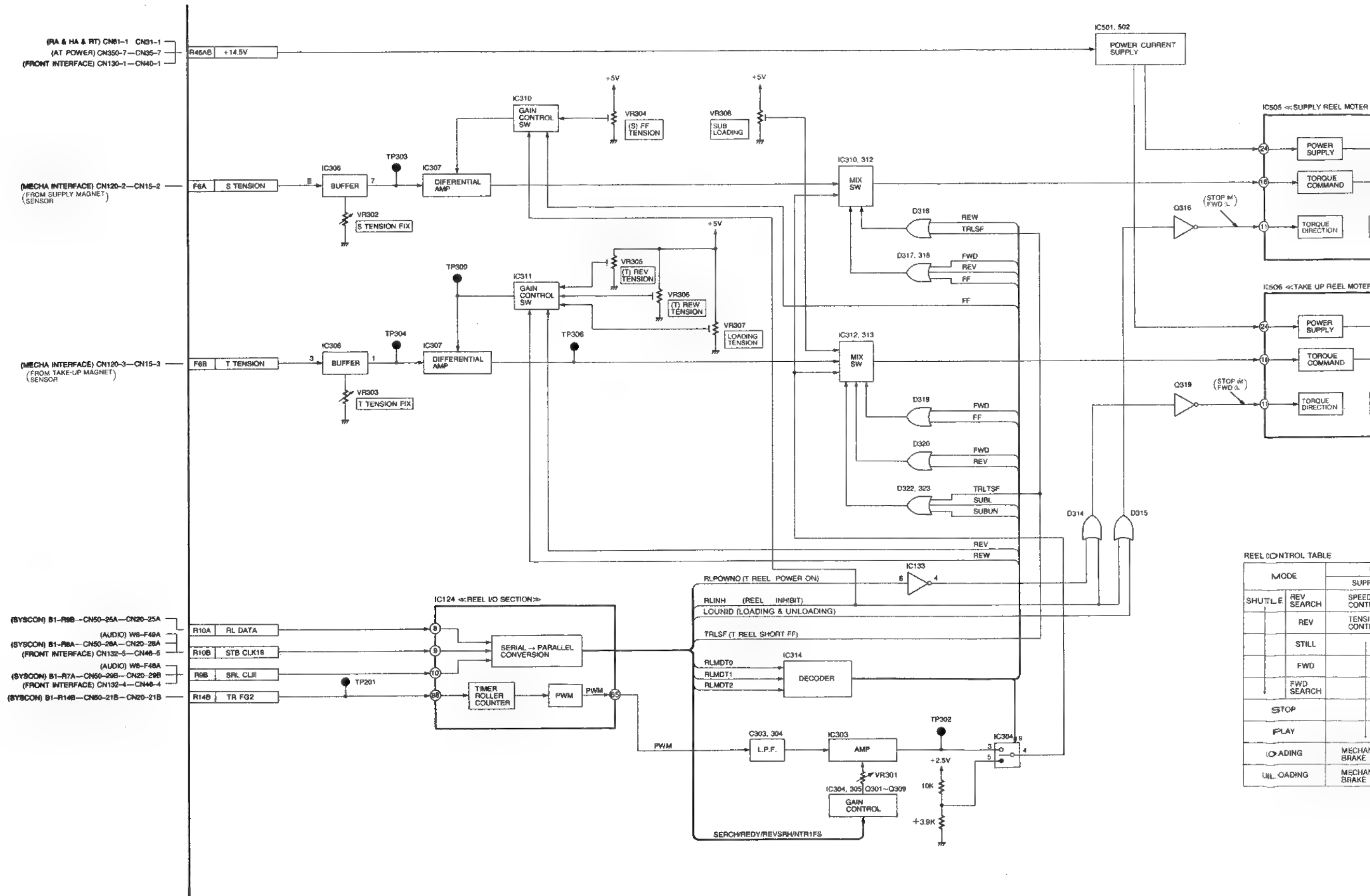
# W5 (SERVO) BLOCK DIAGRAM 2/6 (DRUM SERVO SECTION)



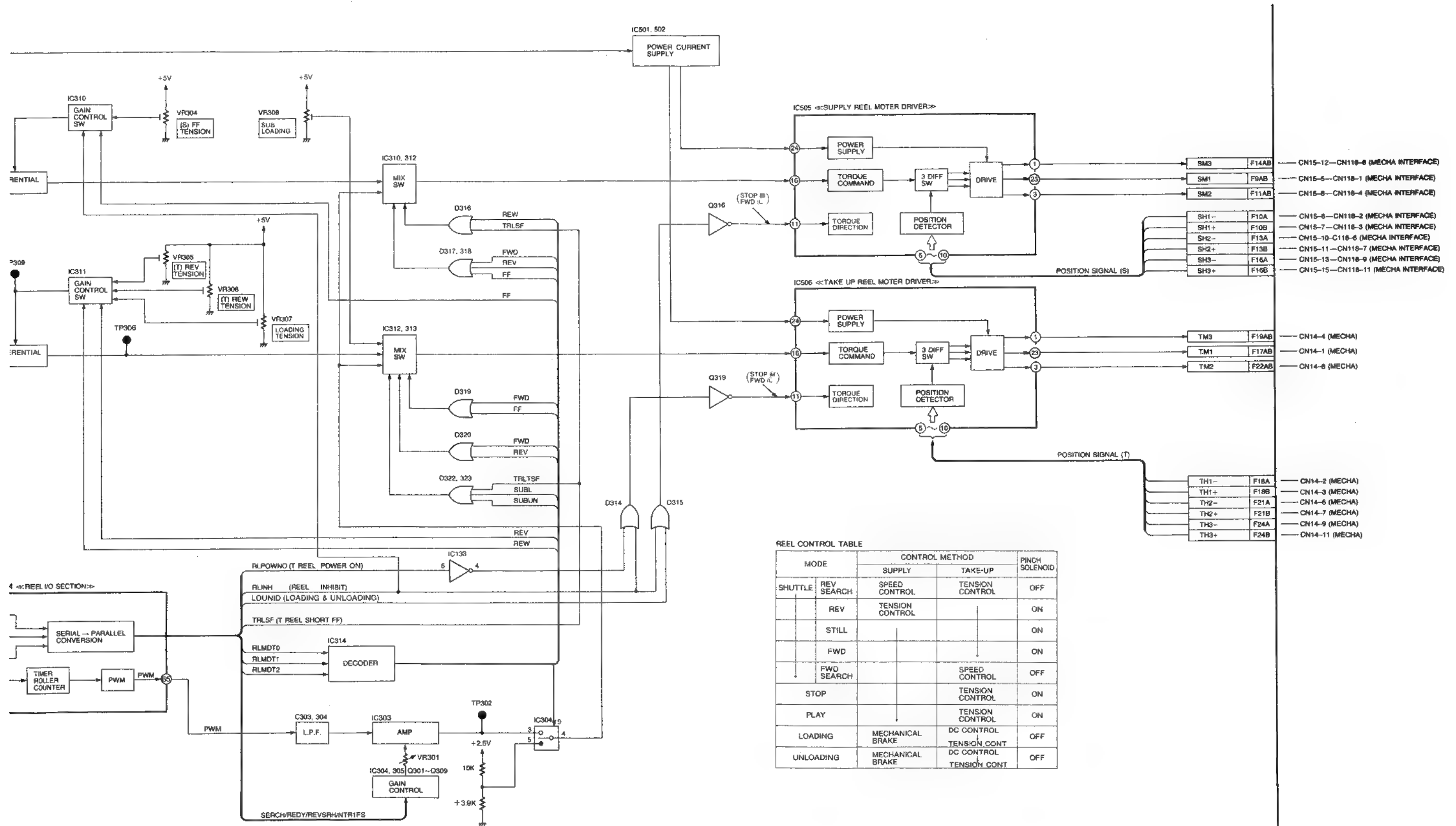
GRAM 2/6 (DRUM SERVO SECTION)



# W5 (SERVO) BLOCK DIAGRAM 3/6 (REEL SERVO SECTION)

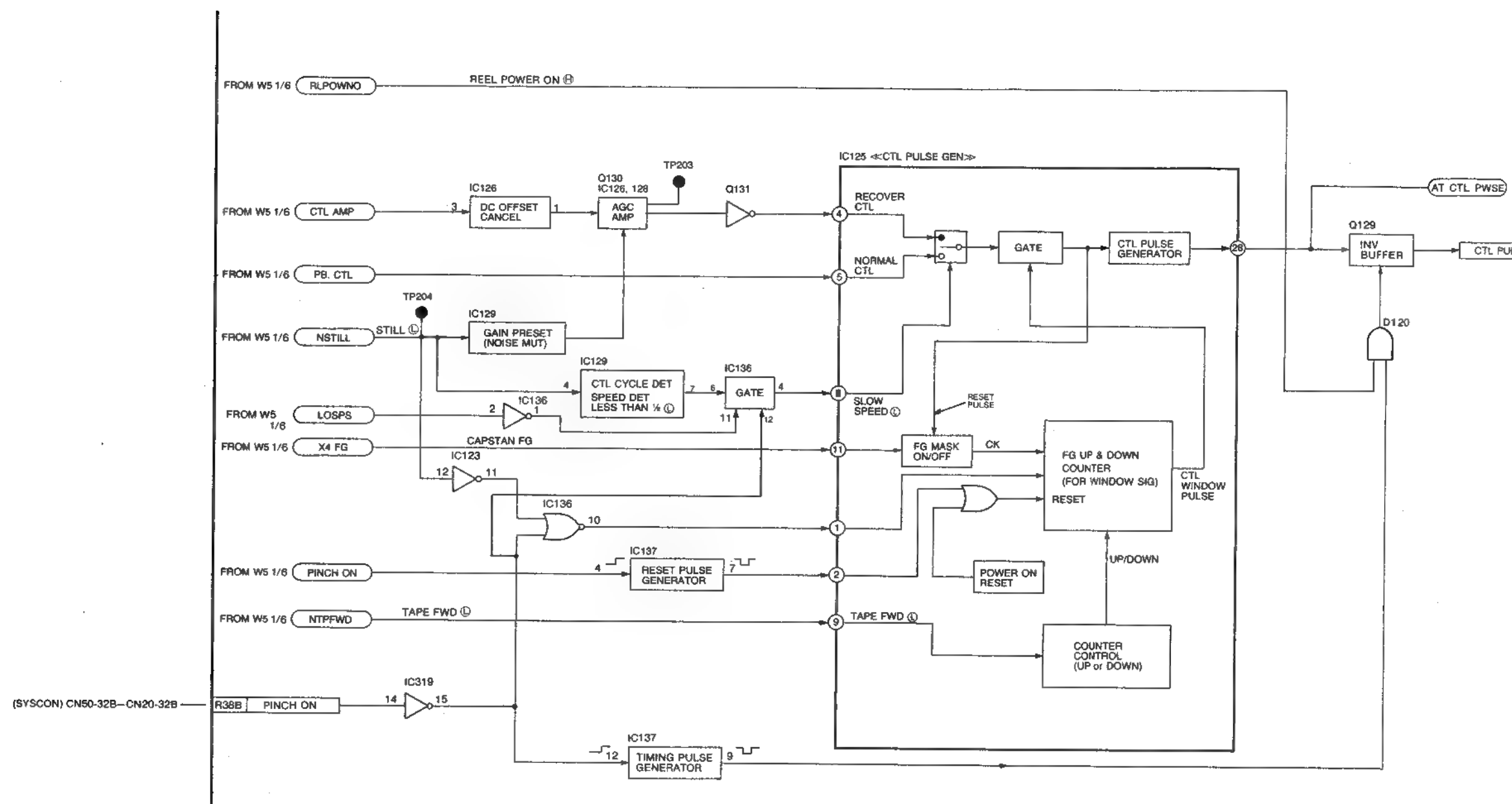


# K DIAGRAM 3/6 (REEL SERVO SECTION)

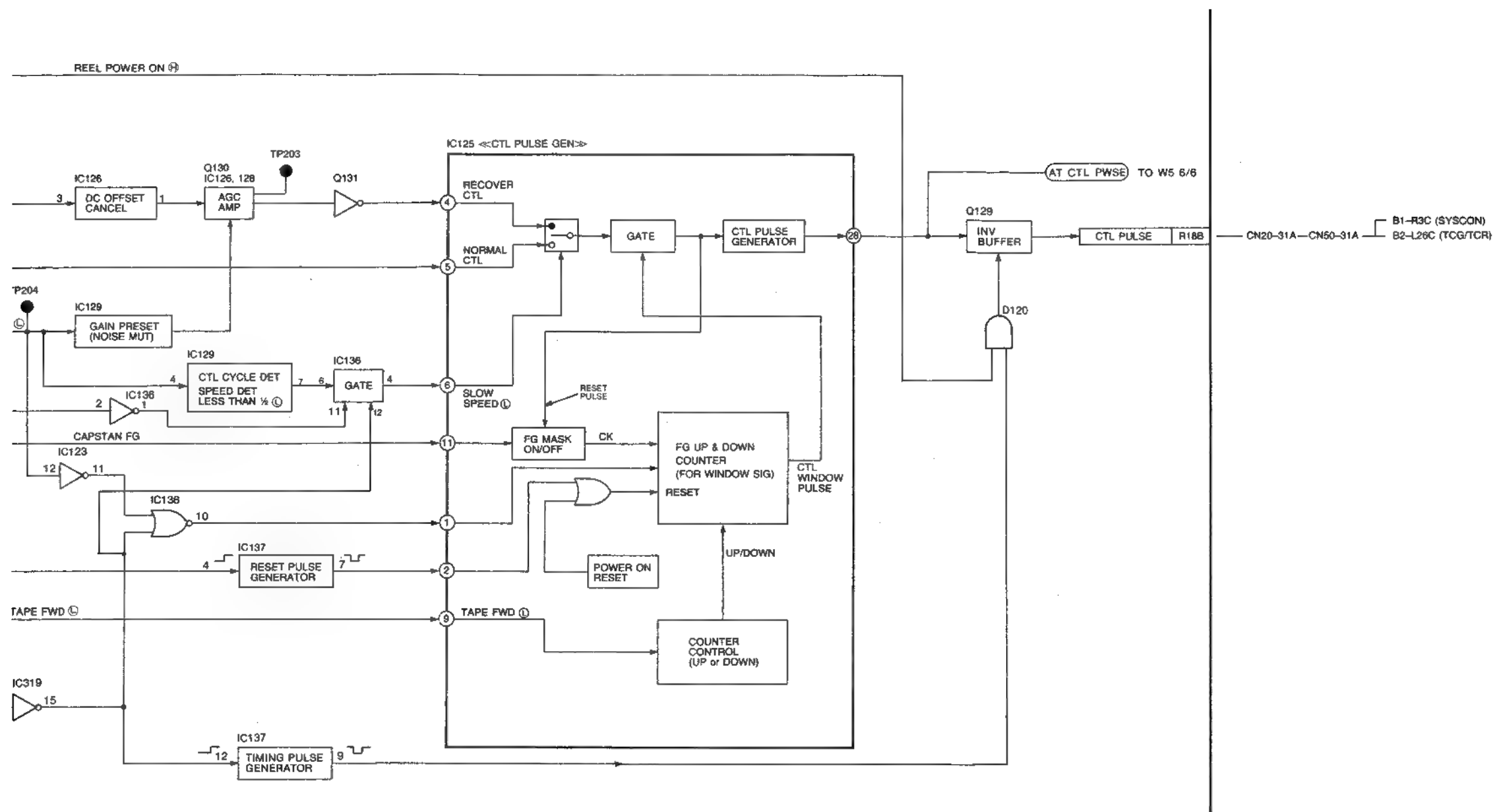


| MODE       |                  | CONTROL METHOD  |                 |                |
|------------|------------------|-----------------|-----------------|----------------|
|            |                  | SUPPLY          | TAKE-UP         | PINCH SOLENOID |
| SHUTTLE    | REV SEARCH       | SPEED CONTROL   | TENSION CONTROL | OFF            |
|            | REV              | TENSION CONTROL |                 | ON             |
|            | STILL            |                 |                 | ON             |
|            | FWD              |                 |                 | ON             |
| FWD SEARCH |                  |                 | SPEED CONTROL   | OFF            |
|            |                  |                 | TENSION CONTROL | ON             |
| STOP       |                  |                 | TENSION CONTROL | ON             |
| PLAY       |                  |                 | TENSION CONTROL | ON             |
| LOADING    | MECHANICAL BRAKE | DC CONTROL      | TENSION CONT    | OFF            |
| UNLOADING  | MECHANICAL BRAKE | DC CONTROL      | TENSION CONT    | OFF            |

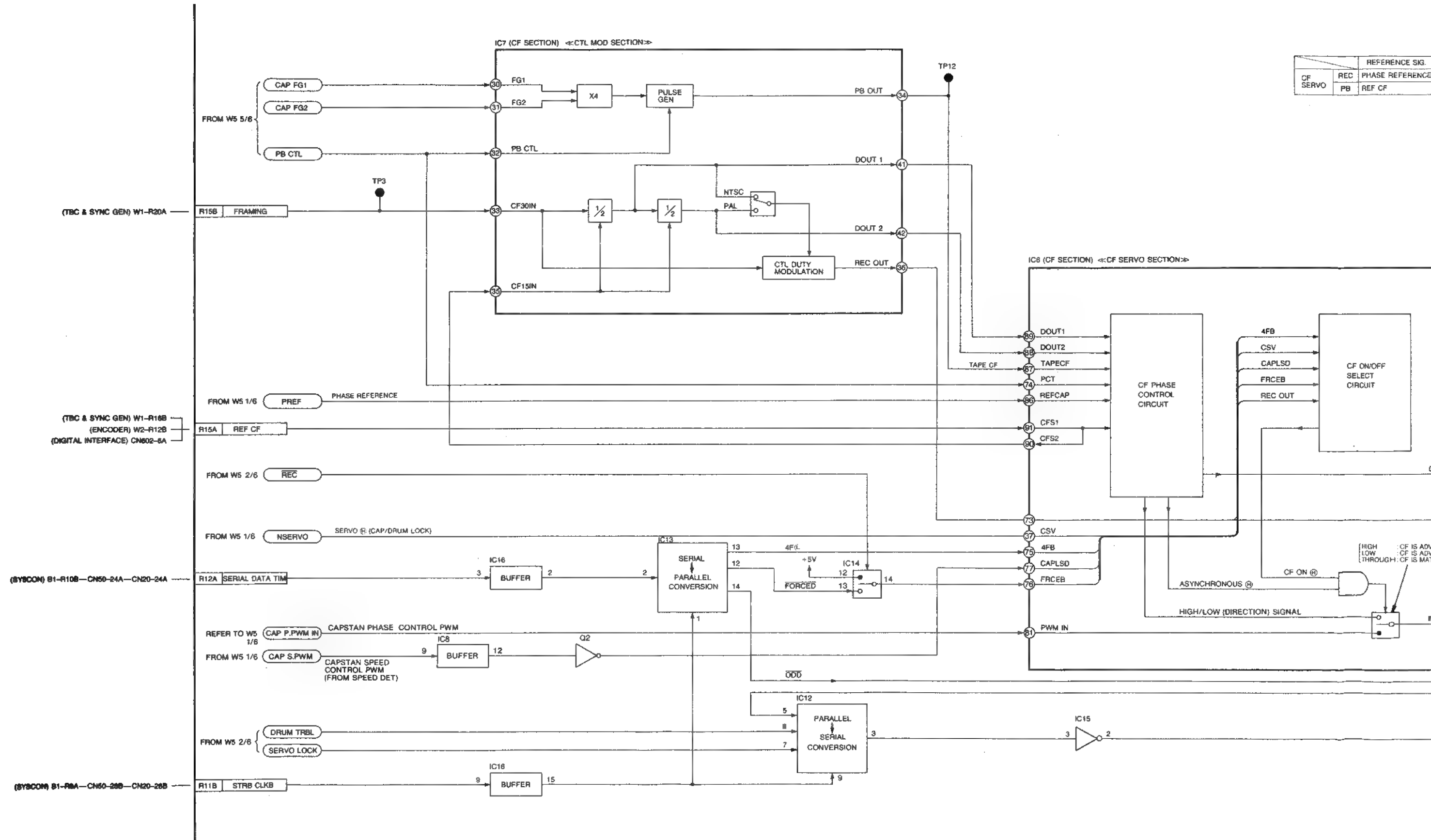
# W5 (SERVO) BLOCK DIAGRAM 4/6 (CTL RECOVER SECTION)



# I/O) BLOCK DIAGRAM 4/6 (CTL RECOVER SECTION)



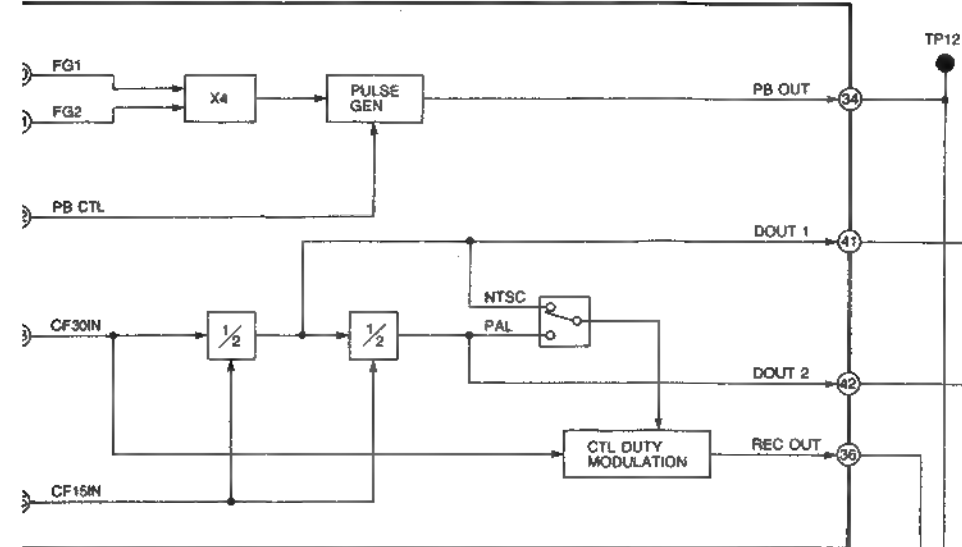
# W5 (SERVO) BLOCK DIAGRAM 5/6 (CF SERVO SECTION)





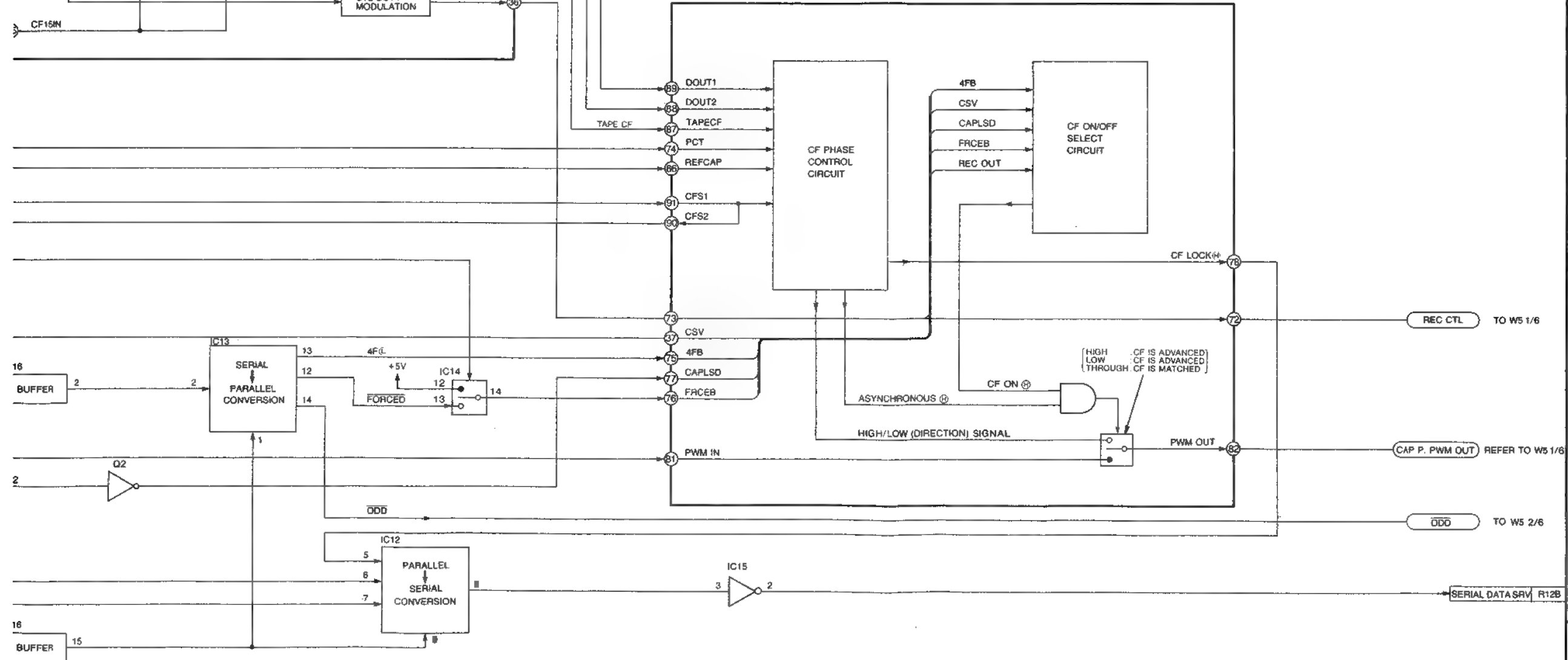
# AGRAM 5/6 (CF SERVO SECTION)

C7 (CF SECTION) <<CTL MOD SECTION>>



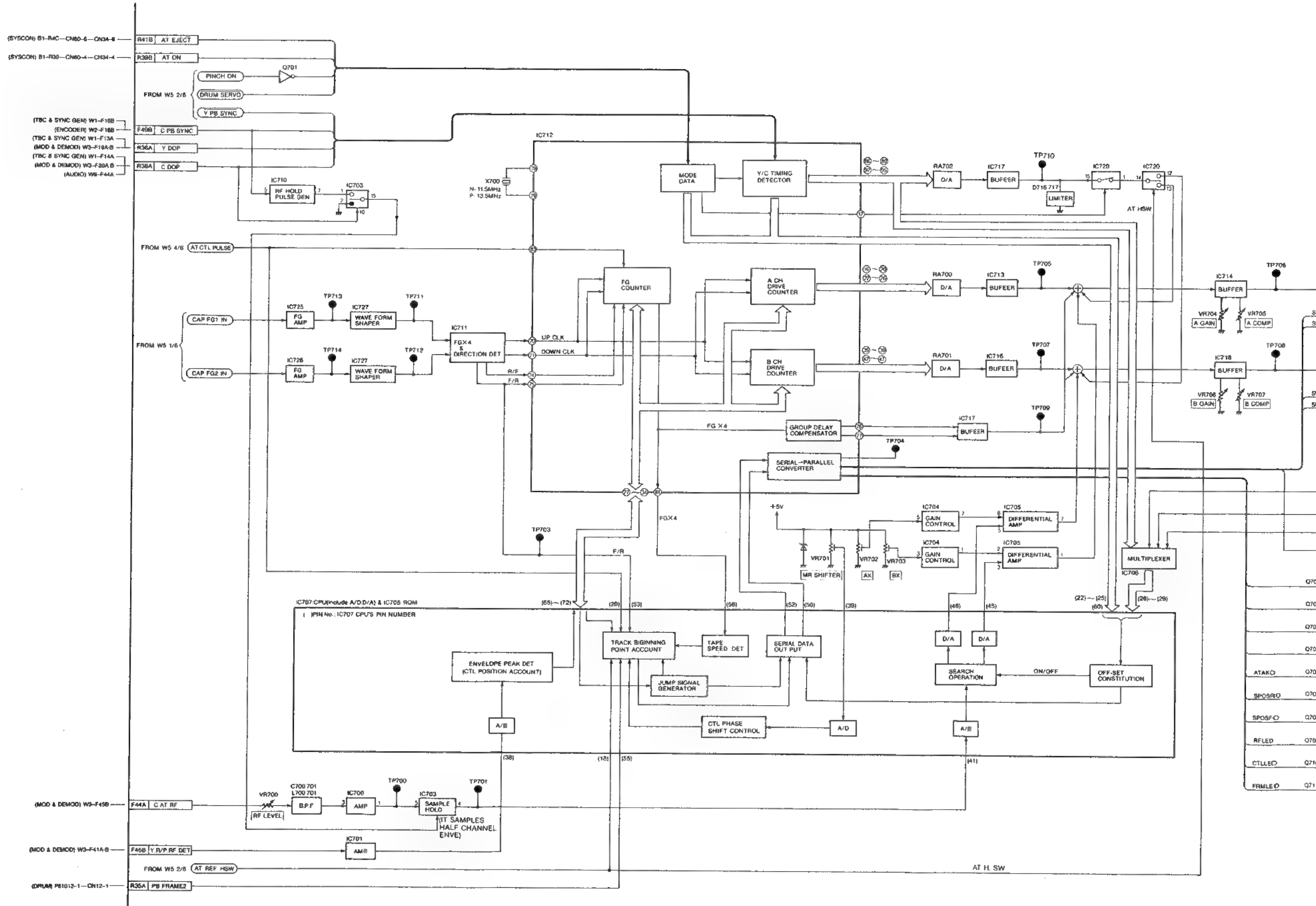
| CF SERVO | REC | REFERENCE SIG.  | COMPARISON SIG. |
|----------|-----|-----------------|-----------------|
|          |     | PHASE REFERENCE | REF CF          |
|          | PB  | REF CF          | TAPE CF         |

IC6 (CF SECTION) <<CF SERVO SECTION>>

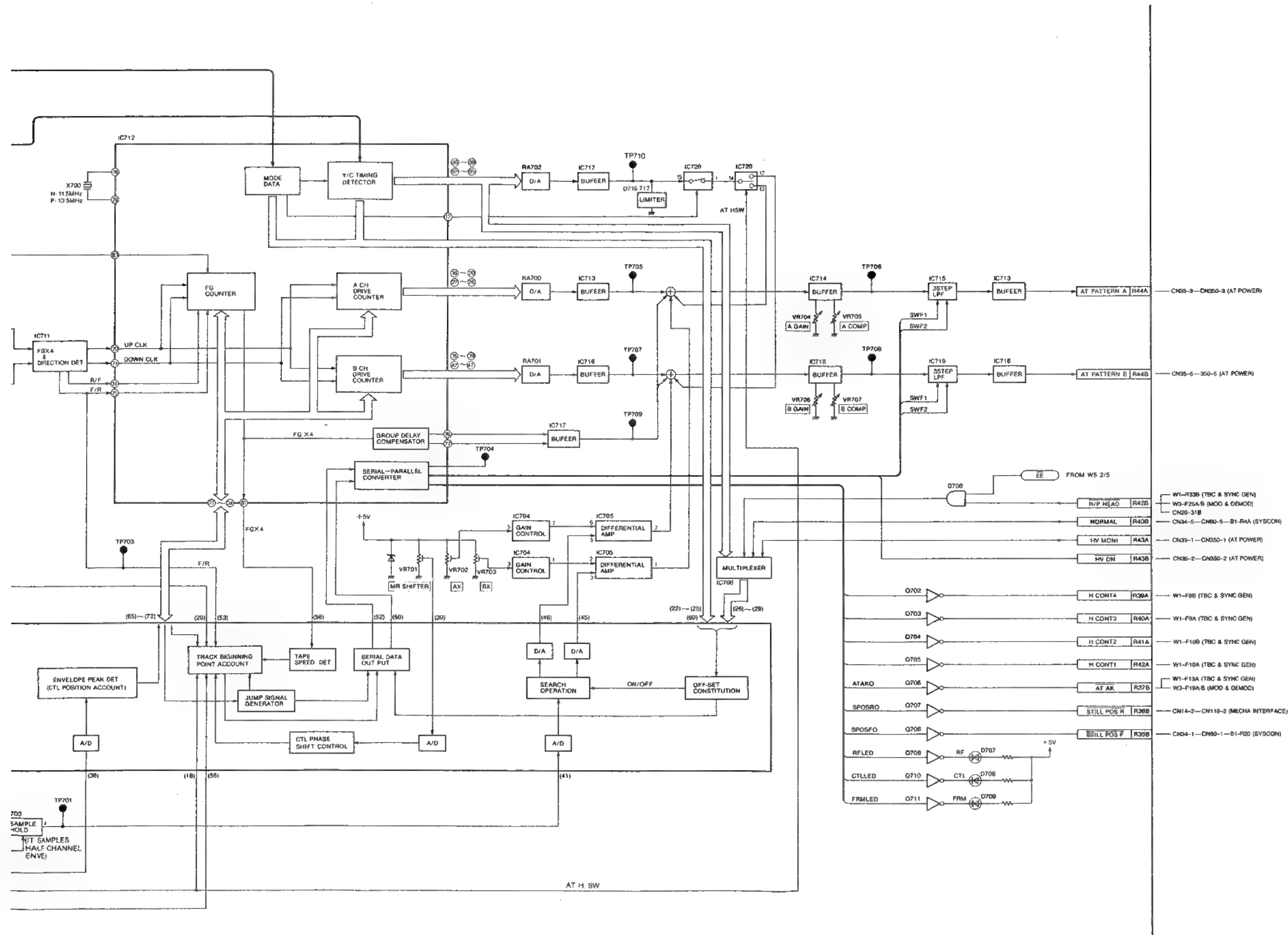


CN20-27B---CN50-17B---B1-R7C (SYS COM)

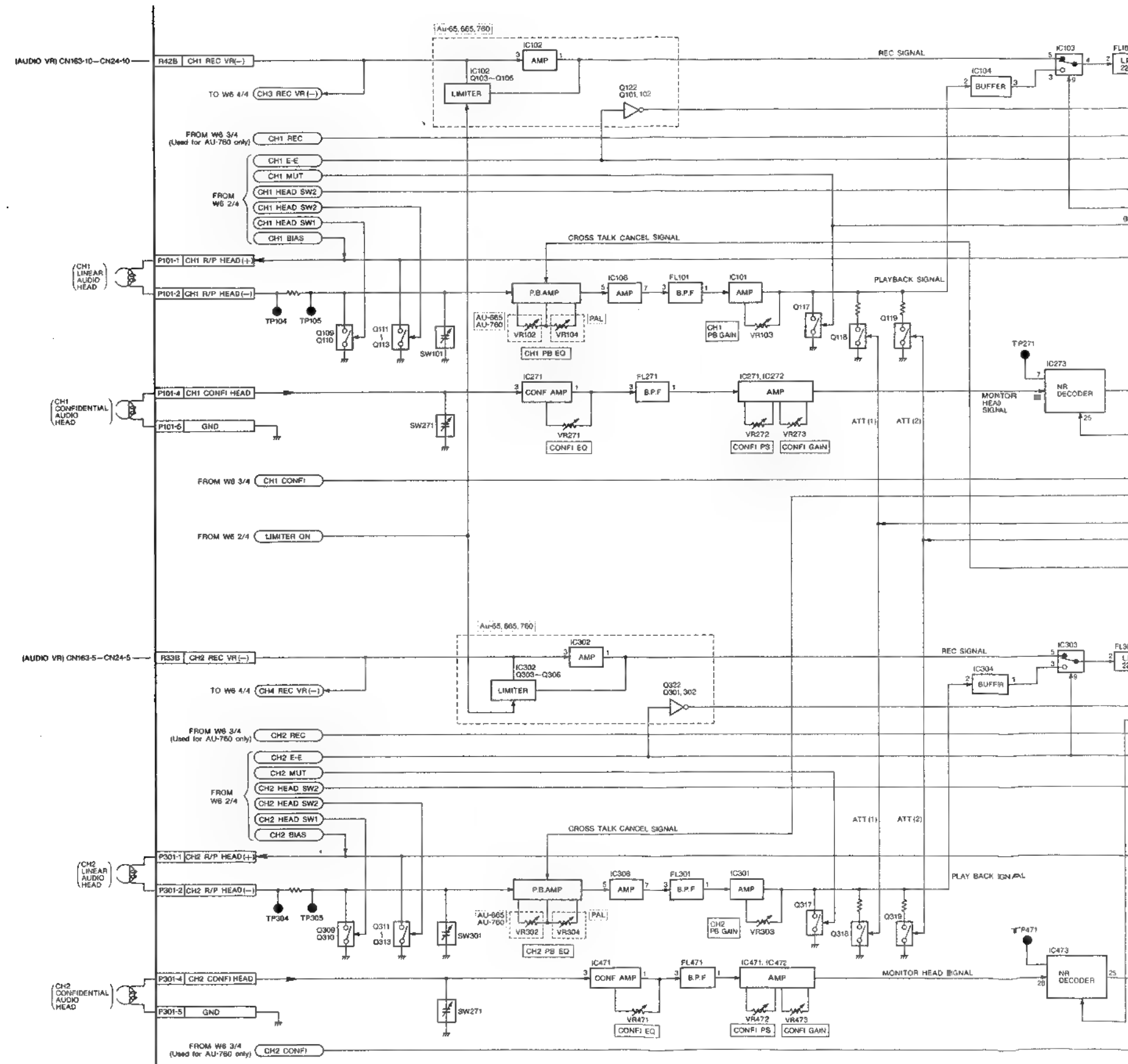
### W5 (SERVO) BLOCK DIAGRAM 6/6 (AT SECTION)[FOR AU-665,AU-63]



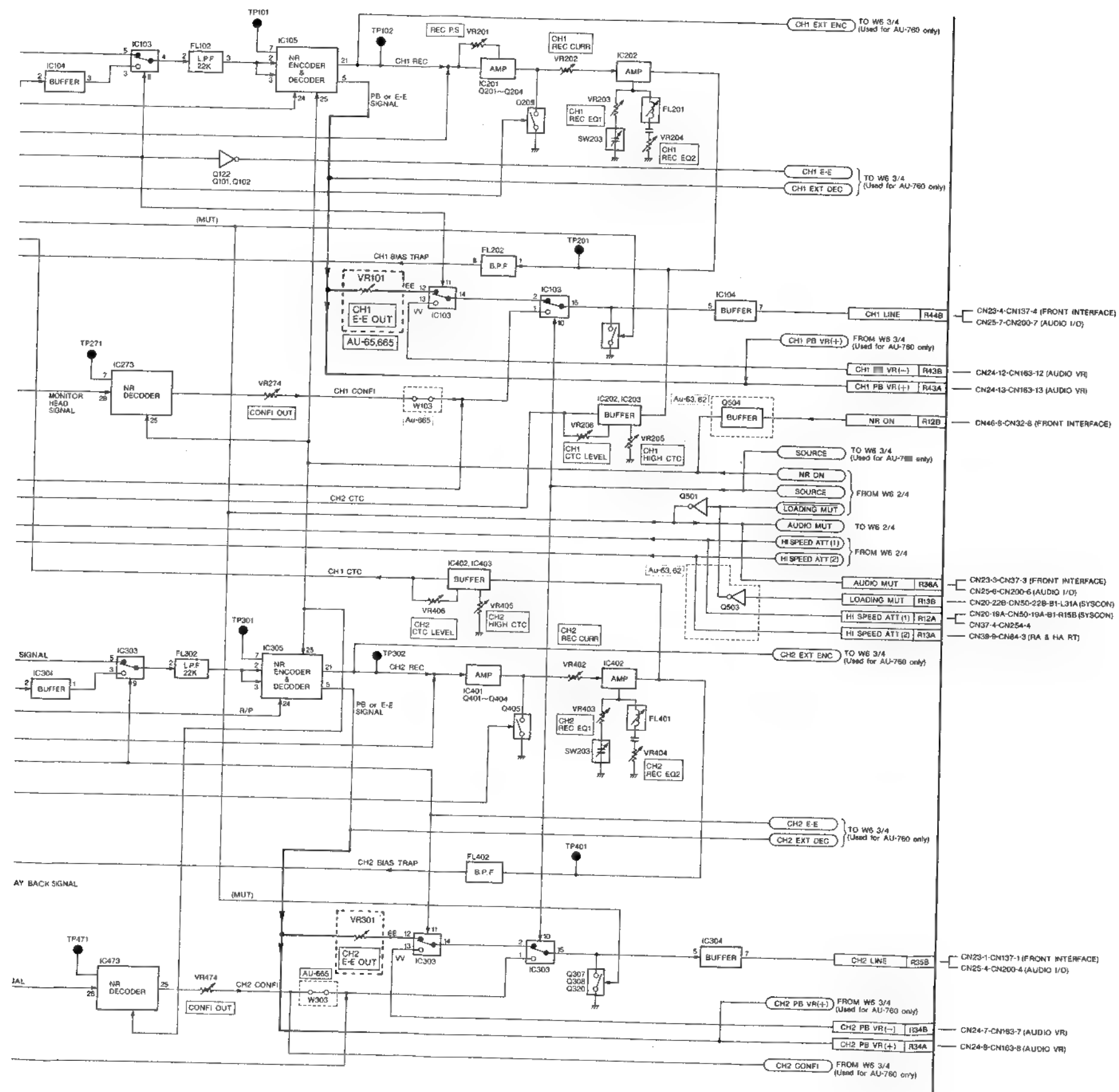
# DIAGRAM 6/6 (AT SECTION)[FOR AU-665,AU-63]



# W6 (AUDIO) BLOCK DIAGRAM 1/4 (LINEAR AUDIO SECTION)

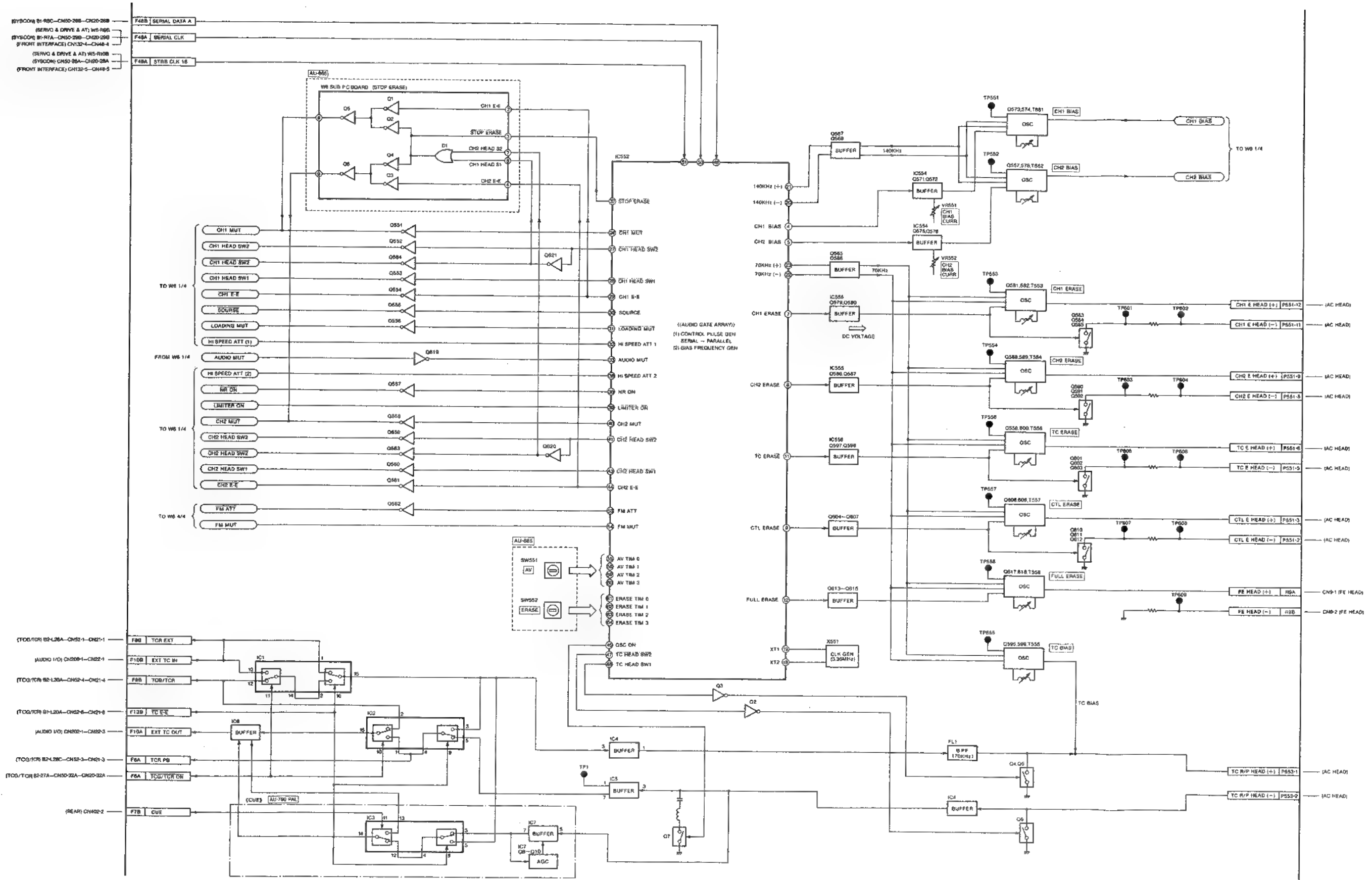


CTION)

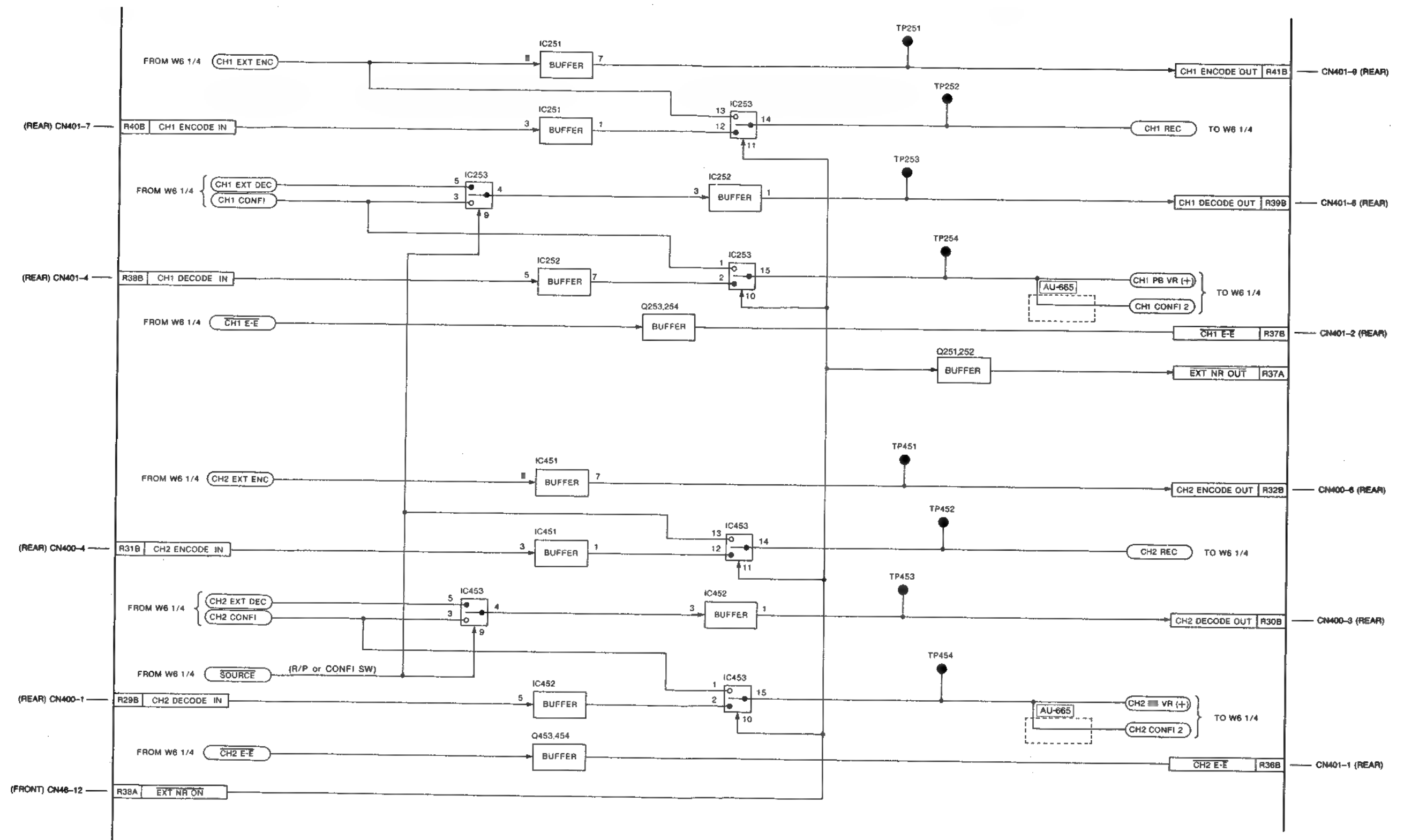


### AUDIO BLOCK DIAGRAM

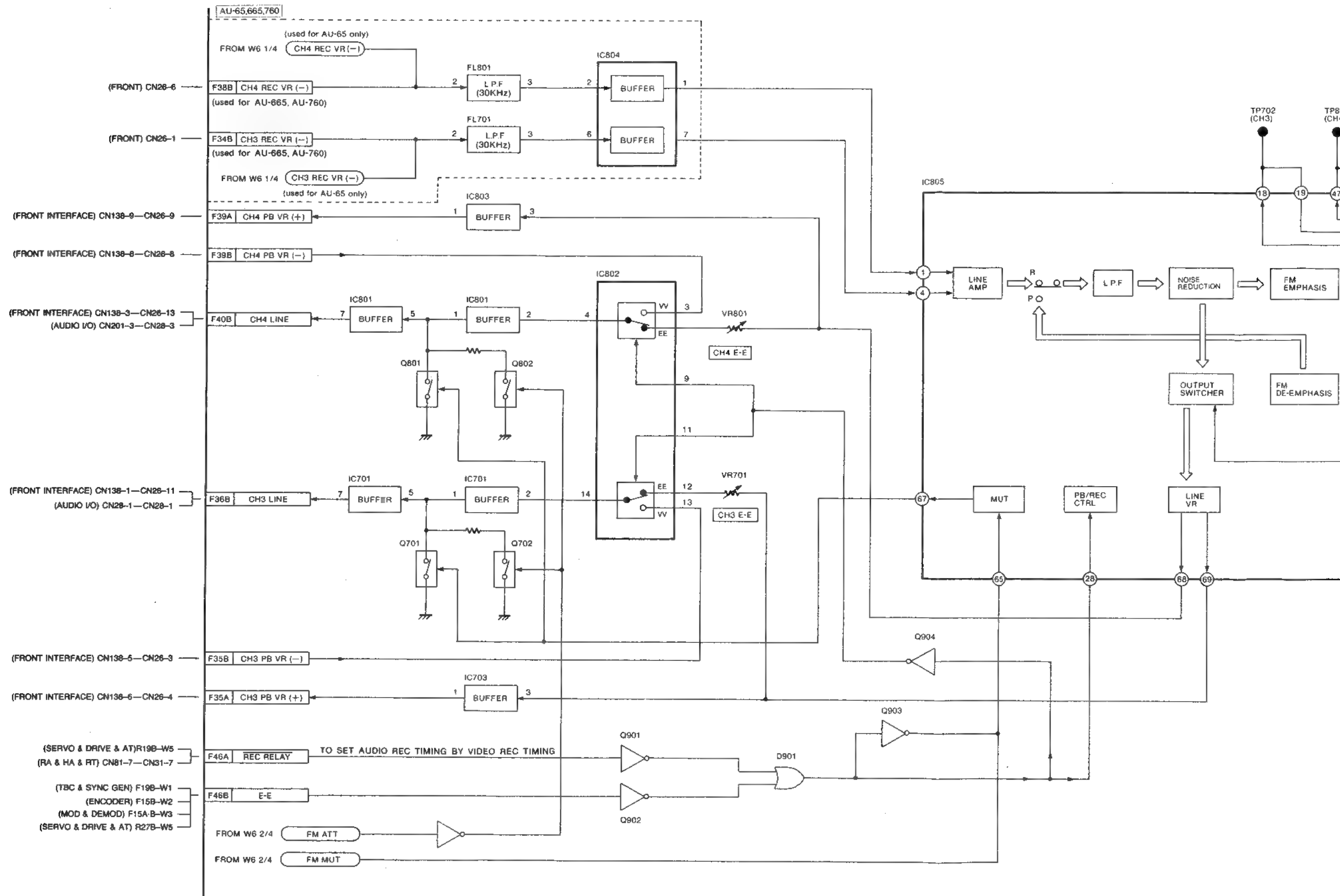
### W6 (AUDIO) BLOCK DIAGRAM 2/4 (REC BIAS & TC SECTION)



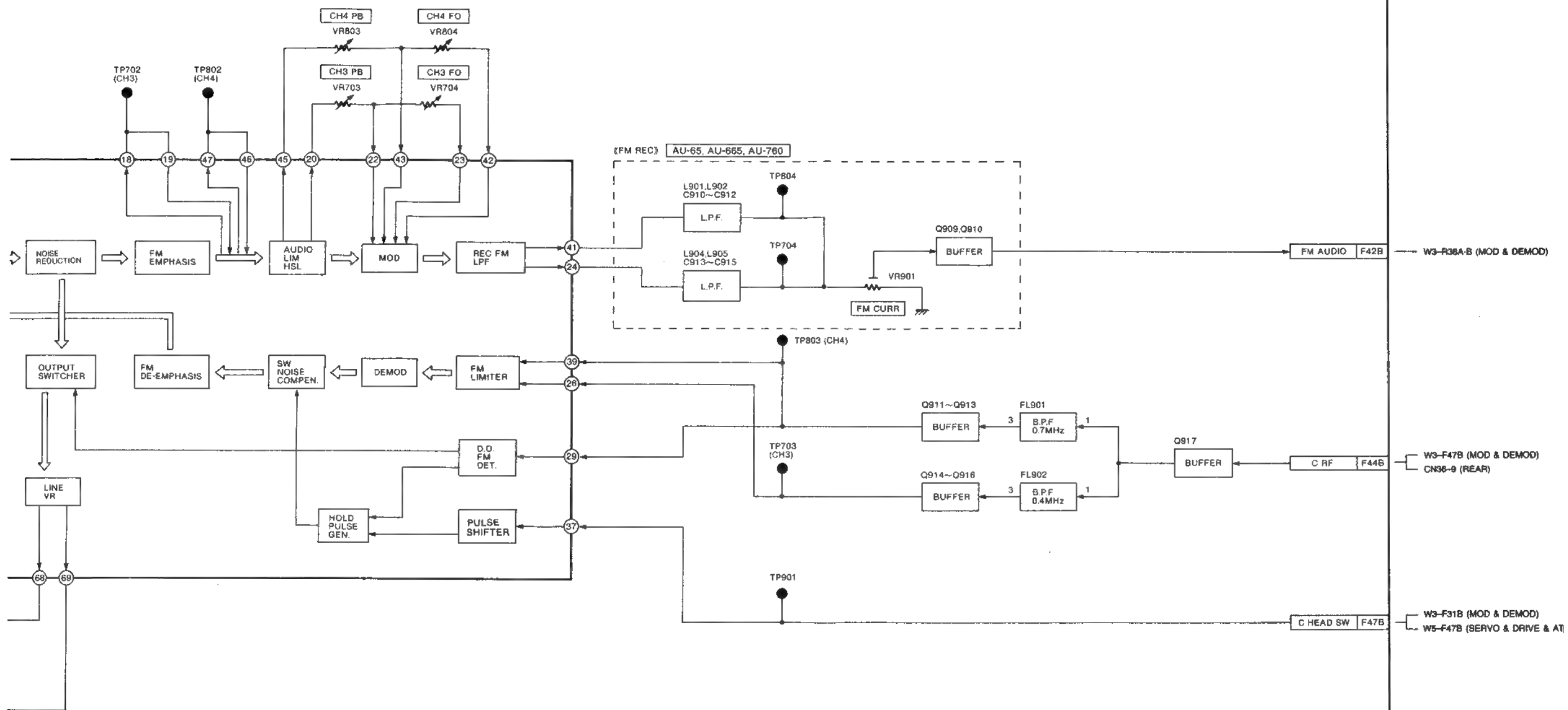
# W6 (AUDIO) BLOCK DIAGRAM 3/4 (EXT NR SECTION)[FOR AU-760]



# W6 (AUDIO) BLOCK DIAGRAM 4/4 (FM AUDIO SECTION)

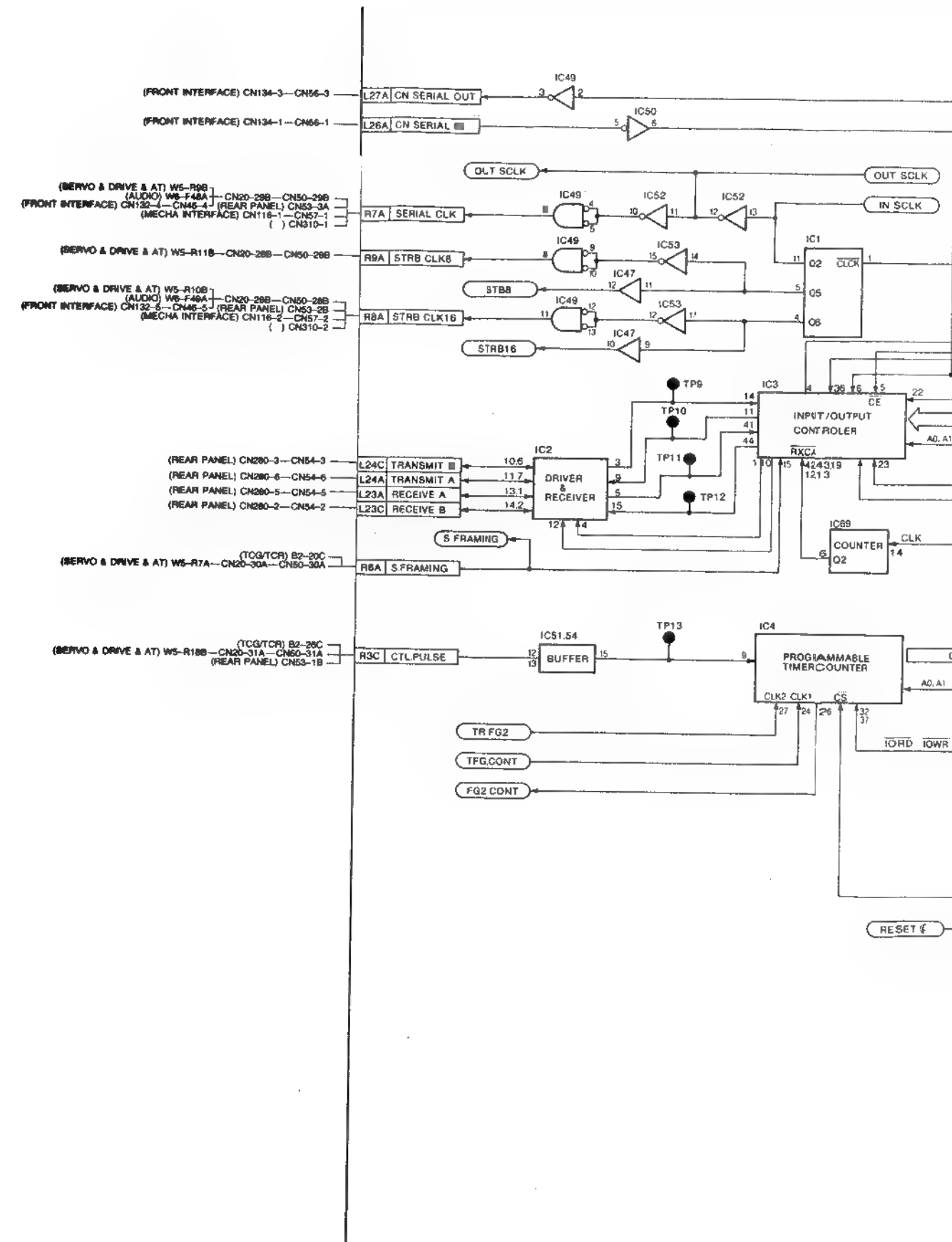






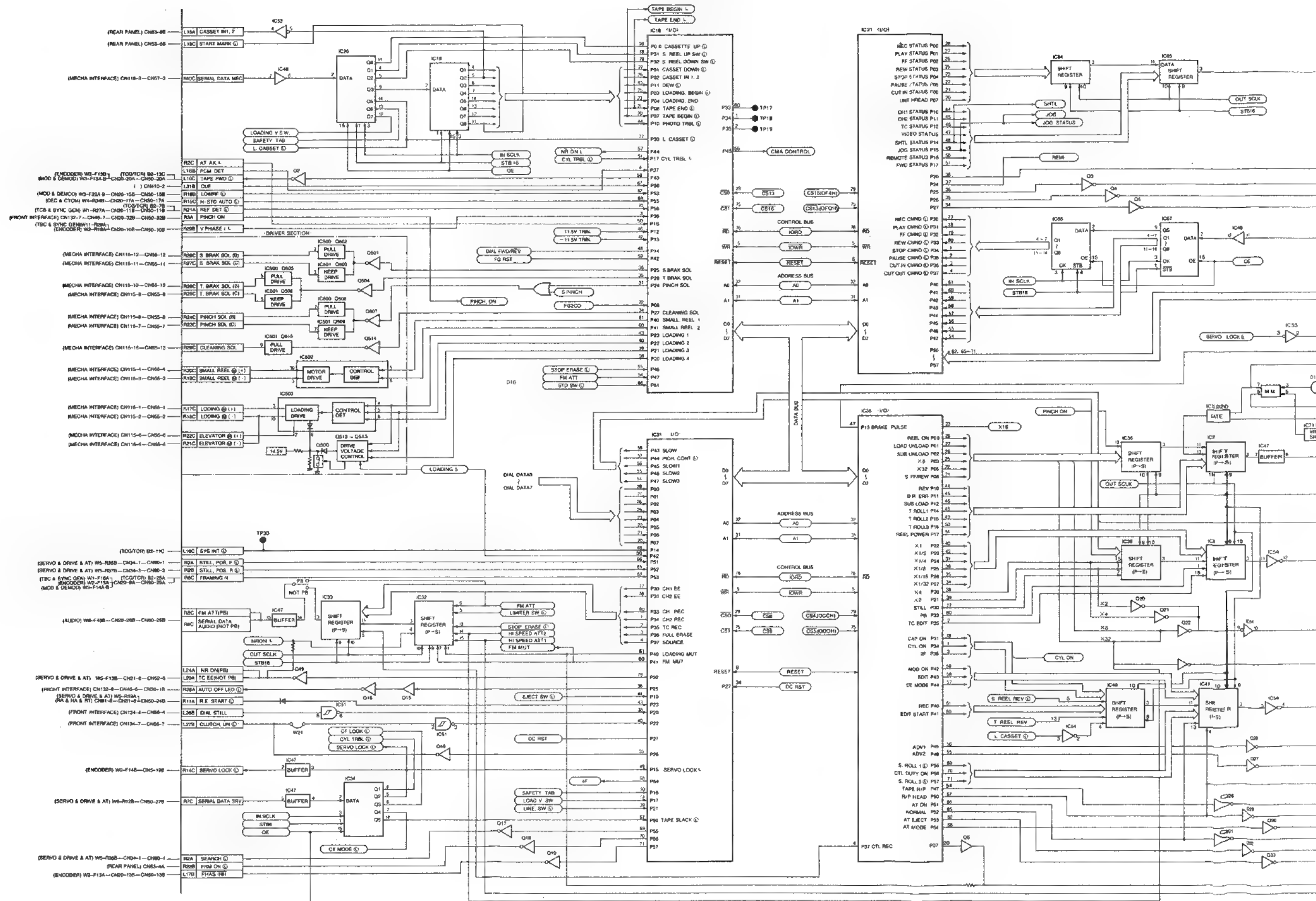
SYSTEM CONTROL  
BLOCK DIAGRAM

B1 (SYSTEM CONTROL) BLOCK D



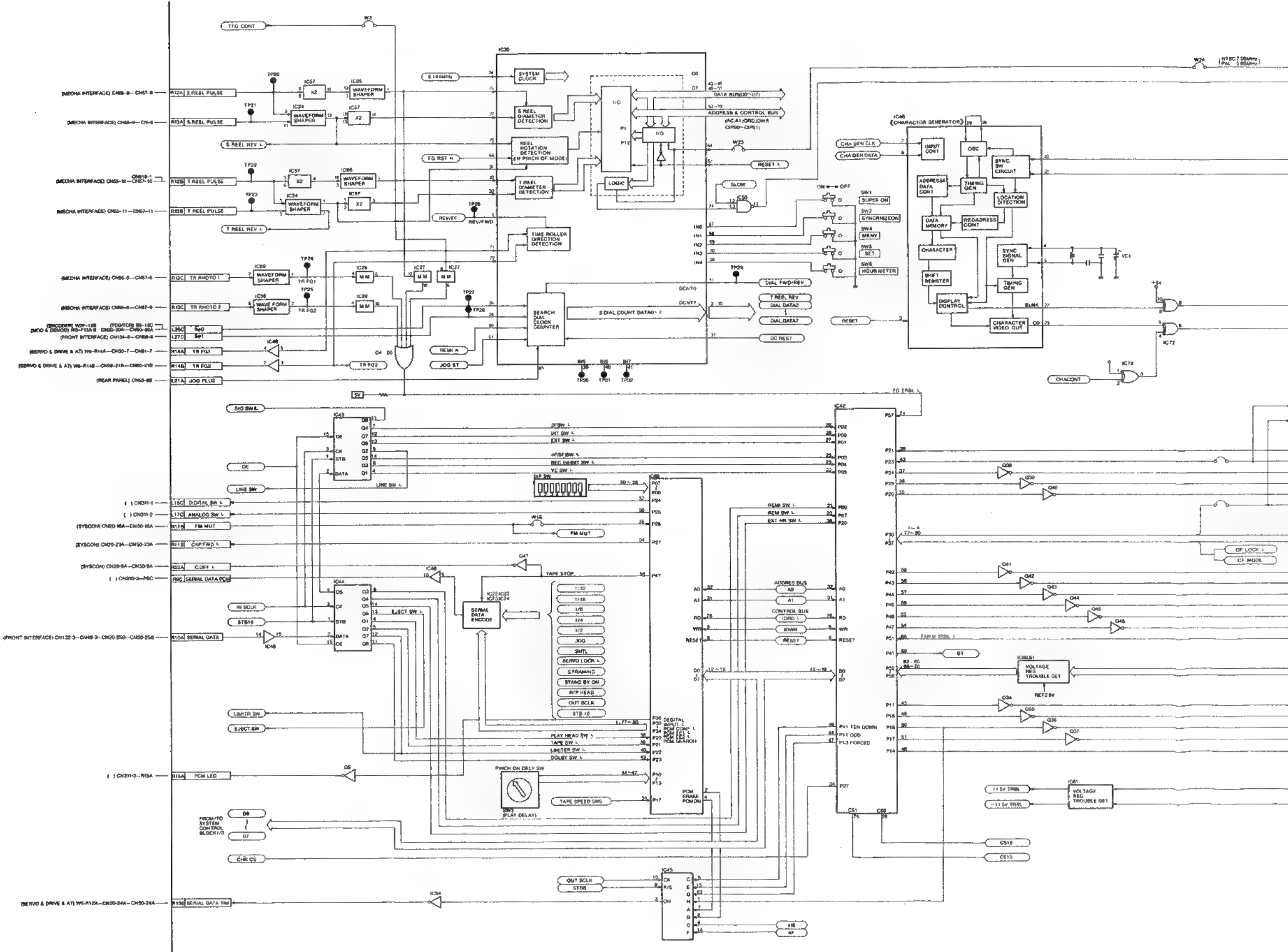
The diagram illustrates a complex digital circuit, likely a microcontroller-based system. The central component is IC5, a microcontroller, which is connected to various peripheral components. On the left, there's an INPUT/OUTPUT CONTROLLER (IC3) and a PROGRAMMABLE TIMER COUNTER (IC4). The top left shows a 6.144 MHz crystal (XTAL) and a 6.144 MHz clock source. The top right features a RESET L input and a 6.144 MHz clock source. The bottom left shows a RESET input and a 6.144 MHz clock source. The bottom right shows a 6.144 MHz clock source and a 6.144 MHz clock source. The diagram includes numerous logic gates, buffers, and decoders, all interconnected to form a complex digital system. The right side of the diagram shows a list of components and their connections, including IC1 through IC16, and various data and address buses.

## B1 (SYSTEM CONTROL) BLOCK DIAGRAM 2/3 (I/O SECTION)

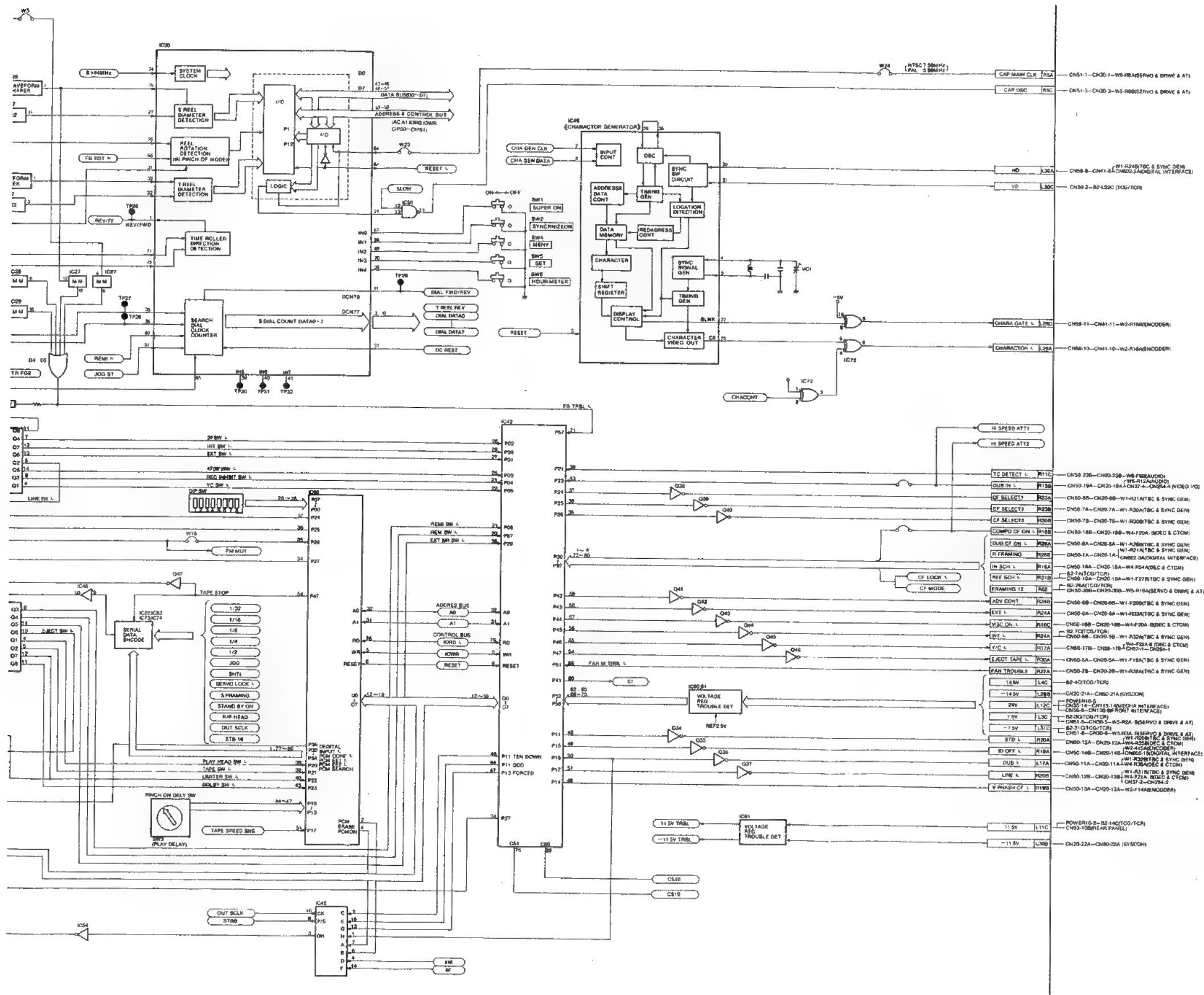




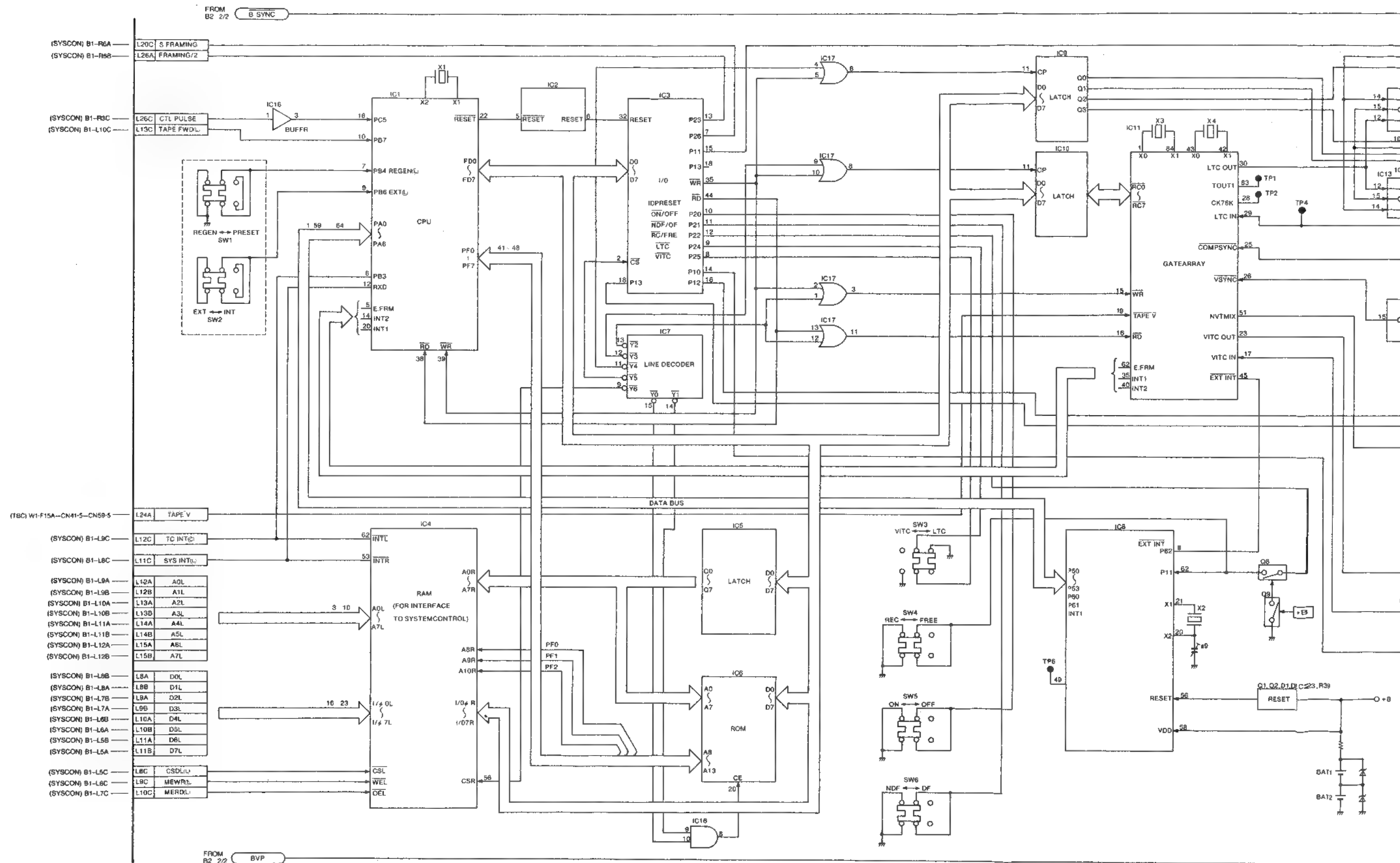
### B1 (SYSTEM CONTROL) BLOCK DIAGRAM 3/3 (GATE ARRY & I/O SECTION)



# 1 CONTROL) BLOCK DIAGRAM 3/3 (GATE ARRY & I/O SECTION)

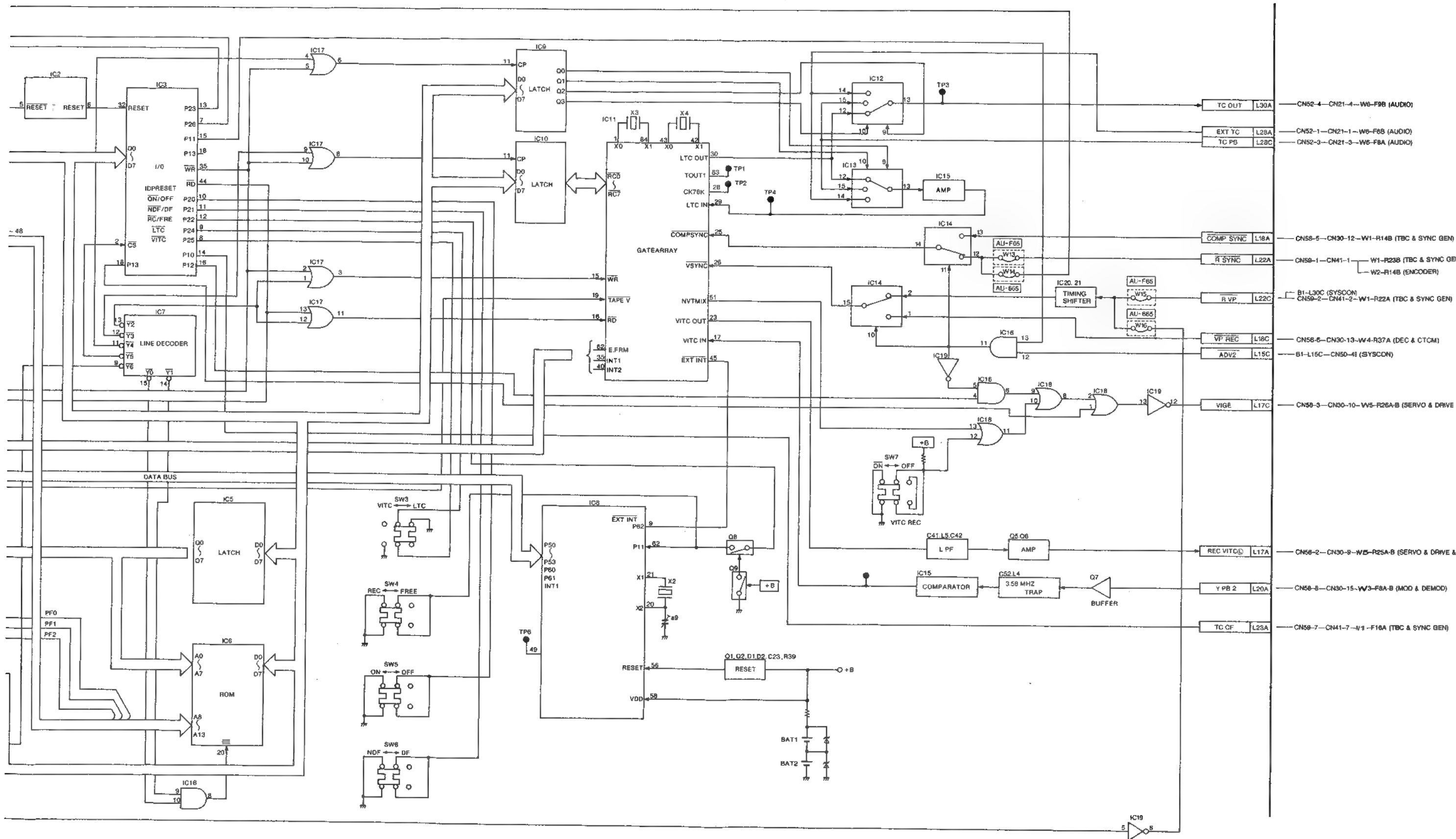


# B2 (TC & BB) BLOCK DIAGRAM 1/2 (TCG/TCR SECTION)[FOR AU-665] \*FOR AU-65/63/62, REFER TO AU-F65 SECTION



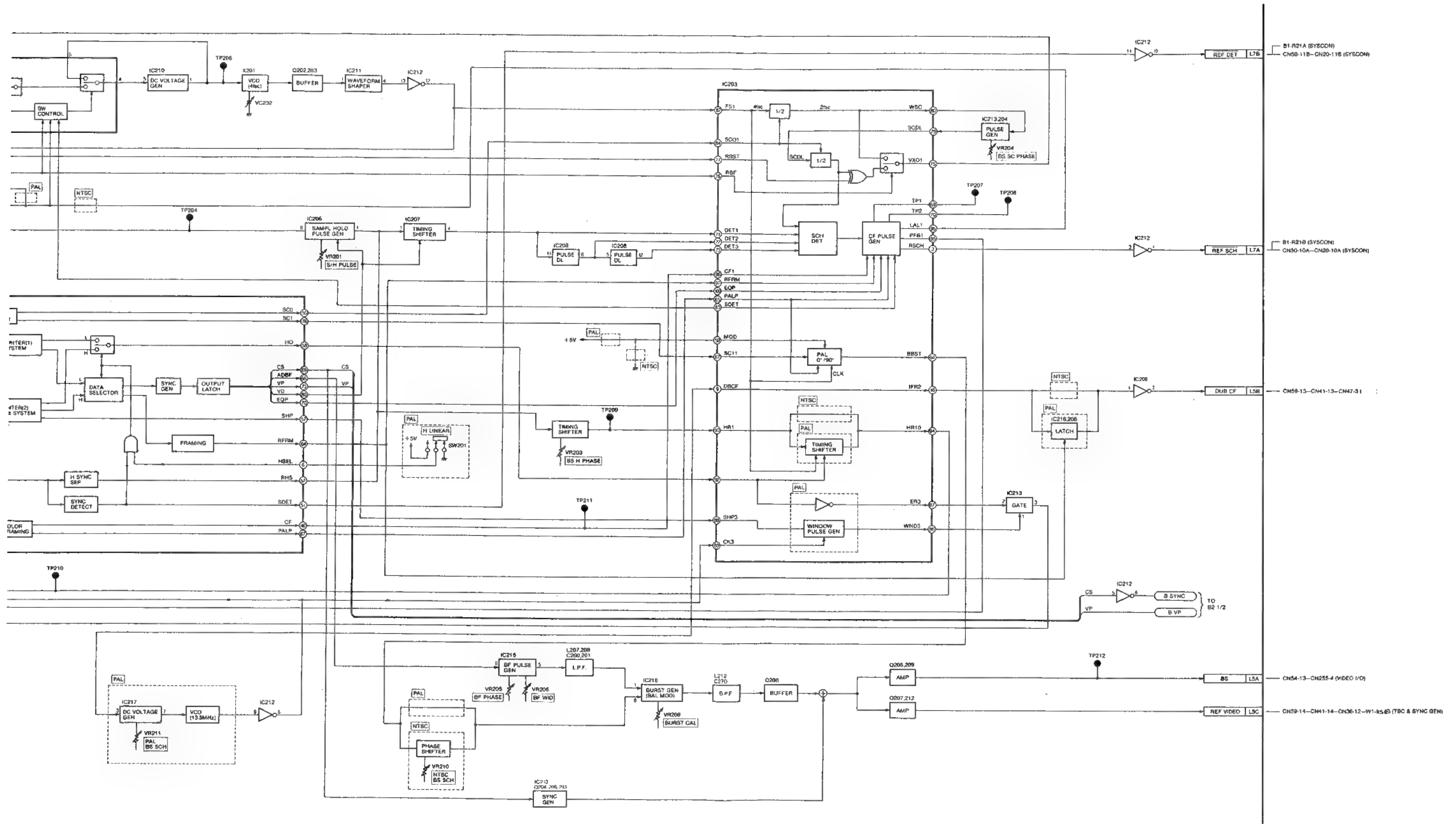


# AM 1/2 (TCG/TCR SECTION)[FOR AU-665] \*FOR AU-65/63/62, REFER TO AU-F65 SECTION

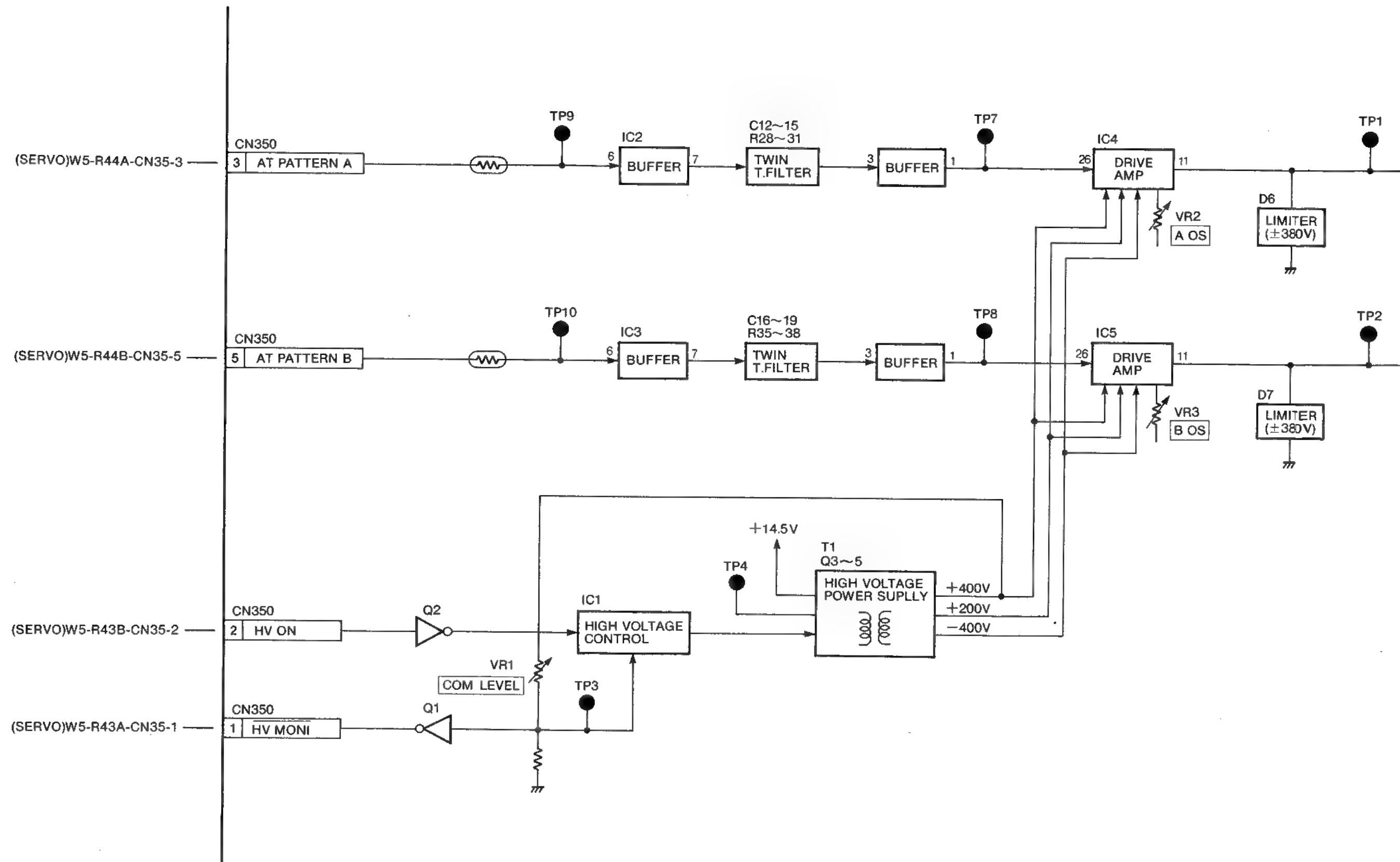


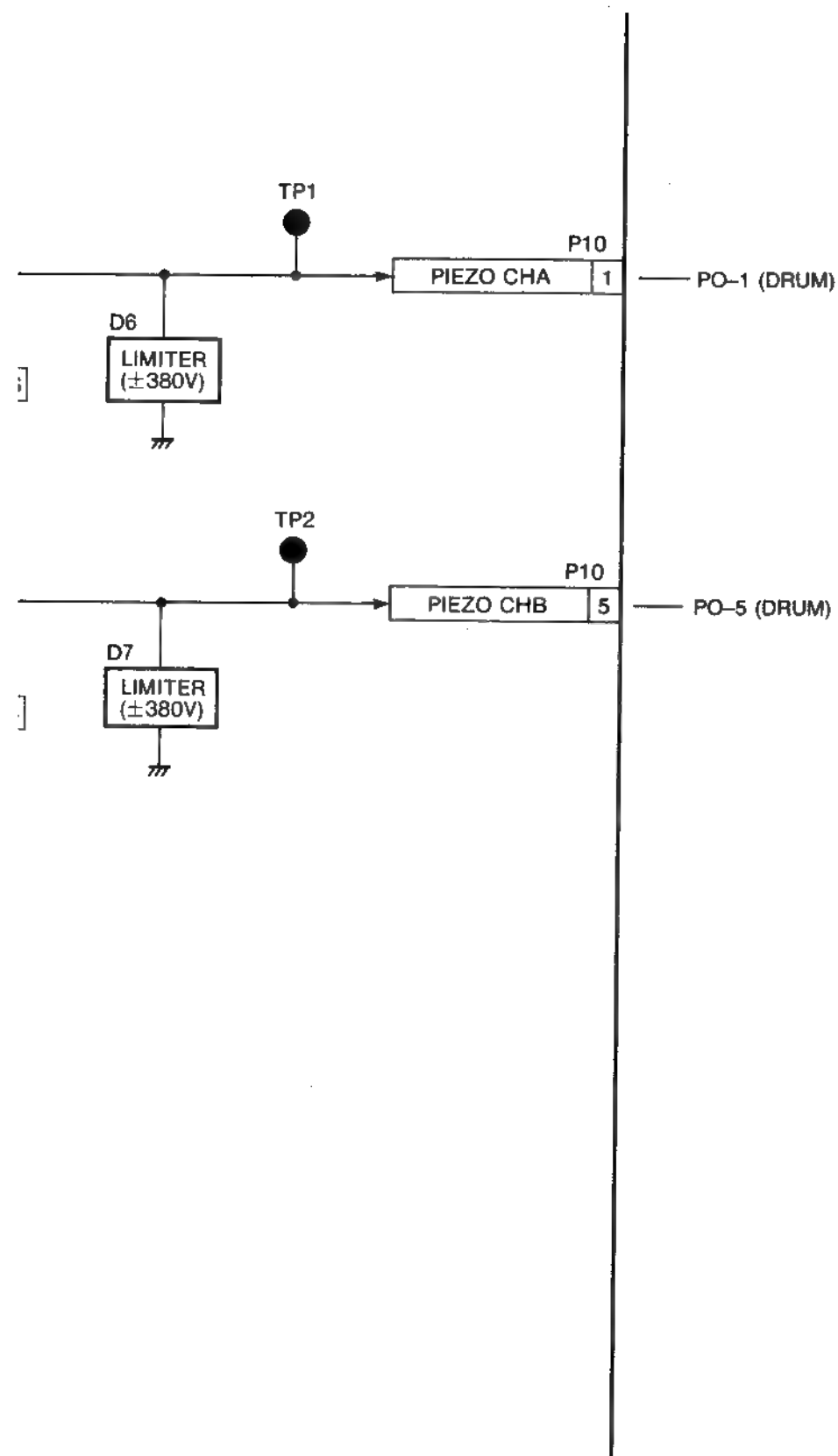


# LACK BURST SECTION)[FOR AU-665]

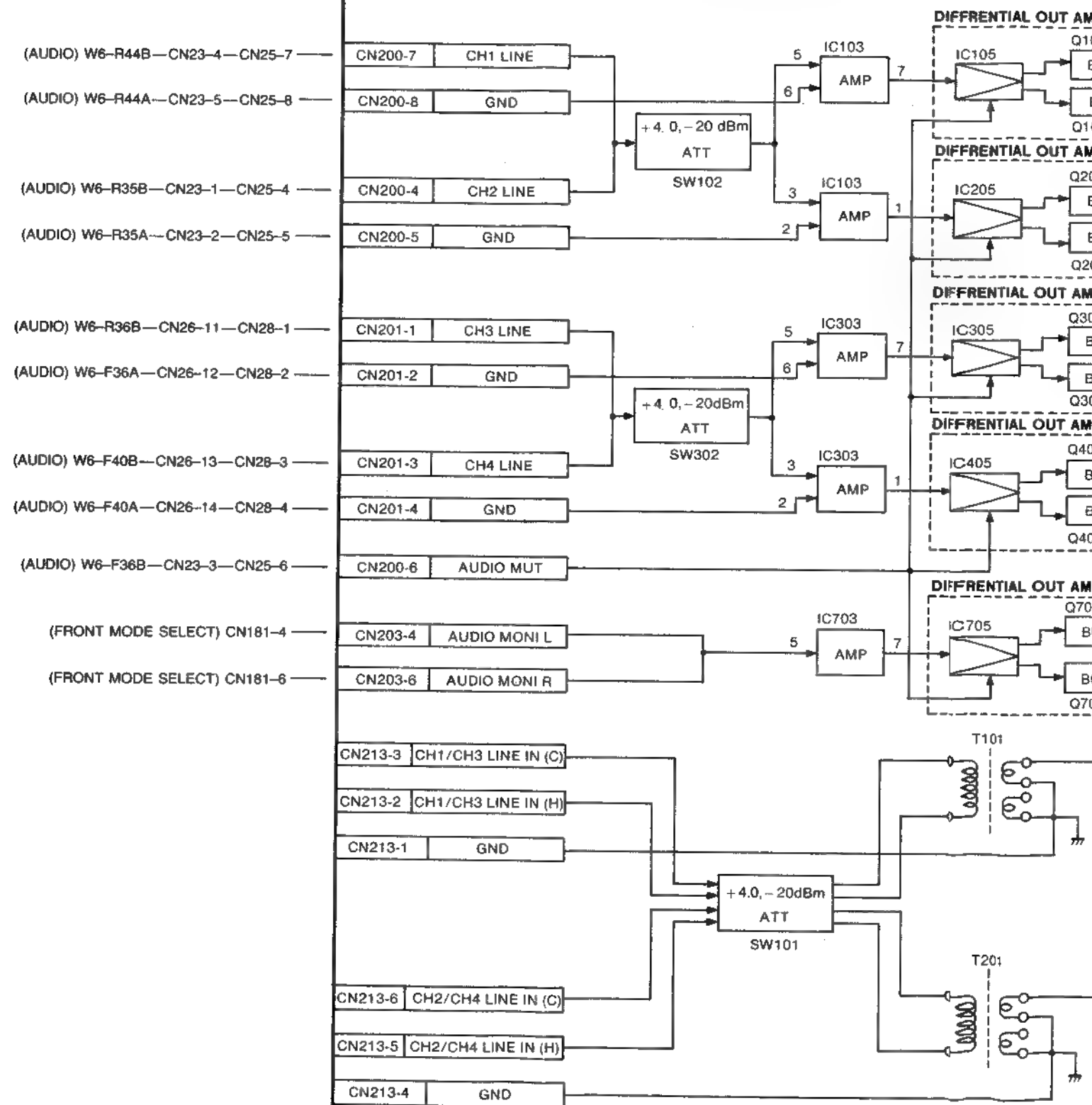


# AT POWER BLOCK DIAGRAM[FOR AU-665,AU-63]

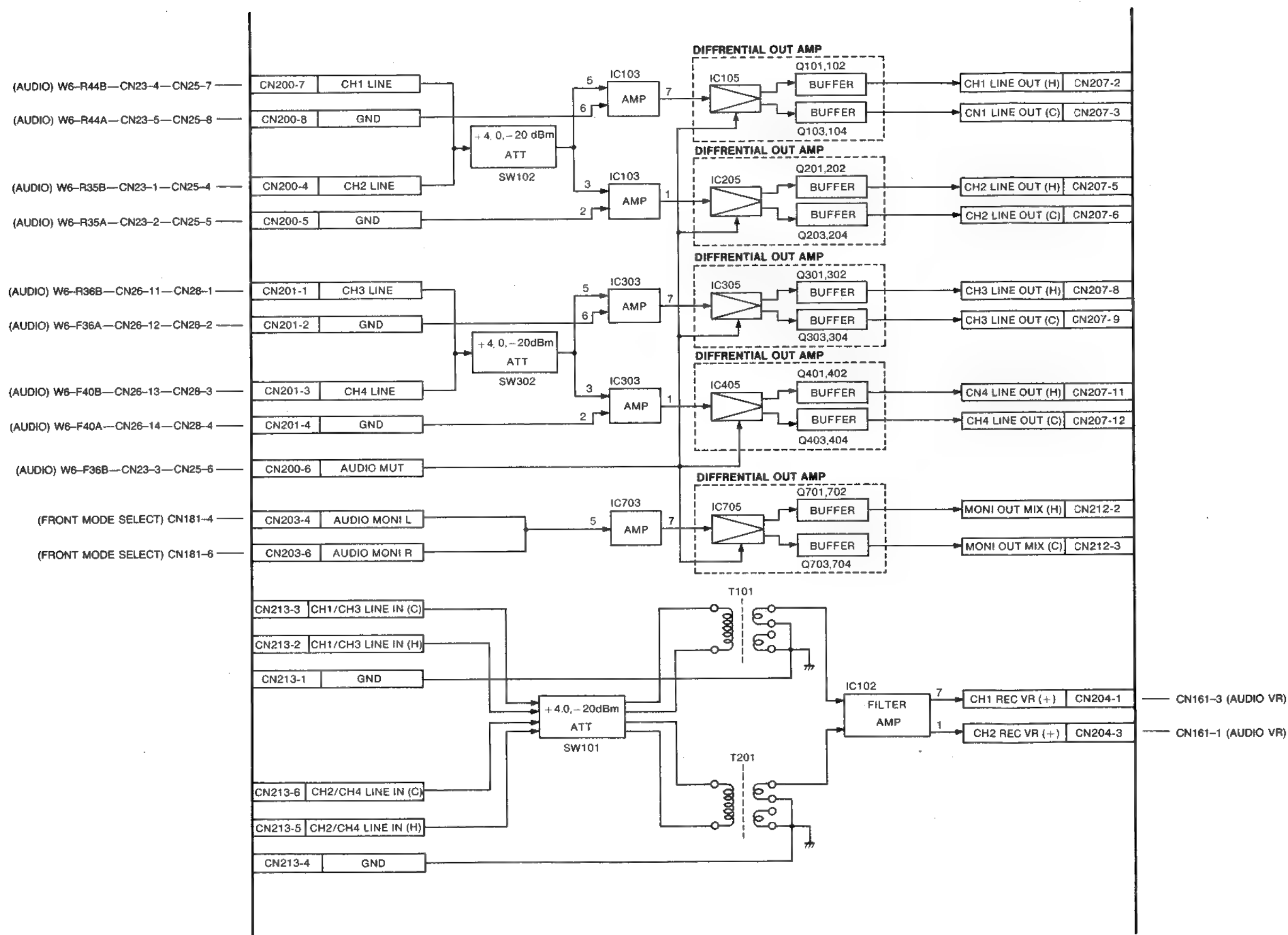




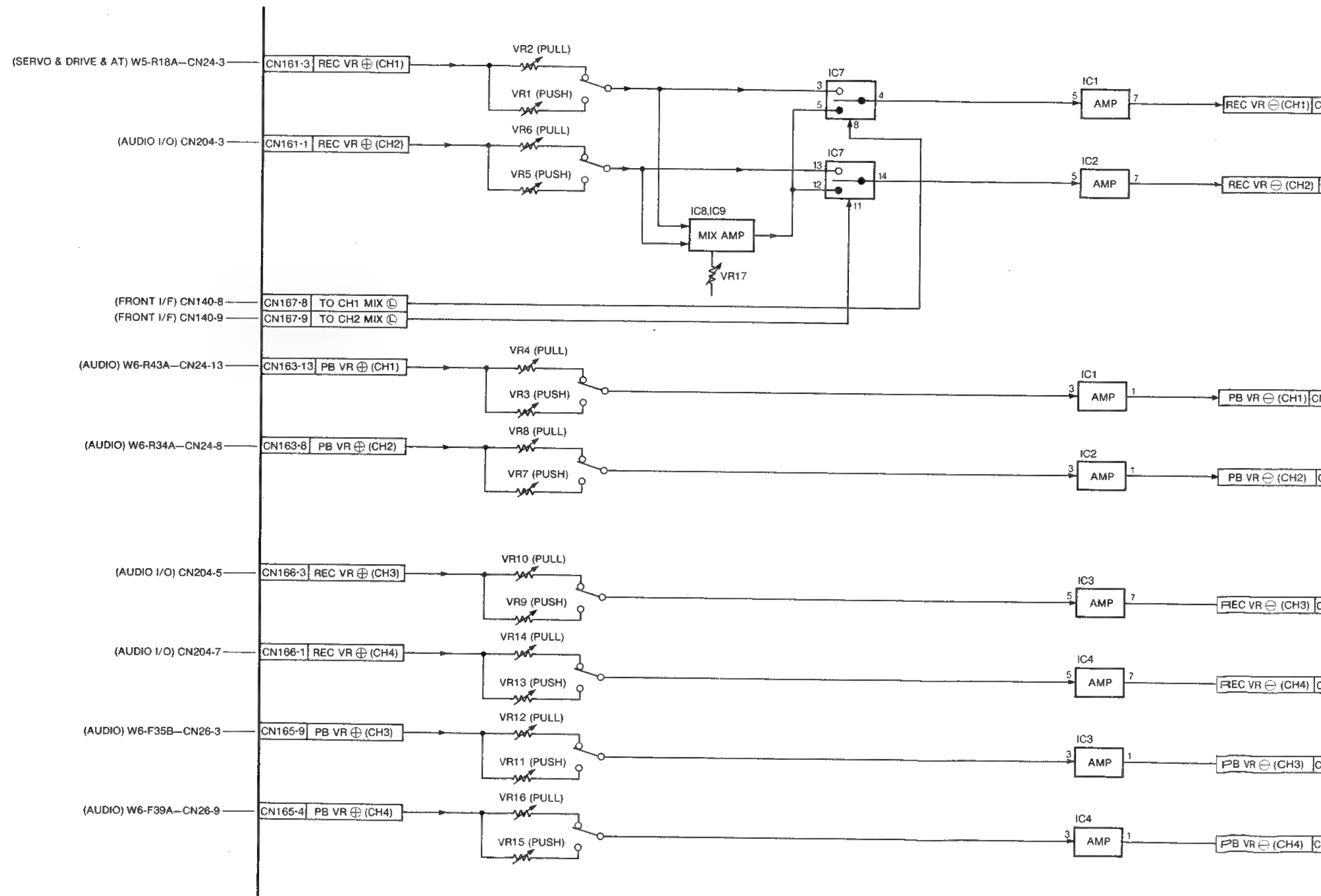
## AUDIO I/O BLOCK DIAGRAM



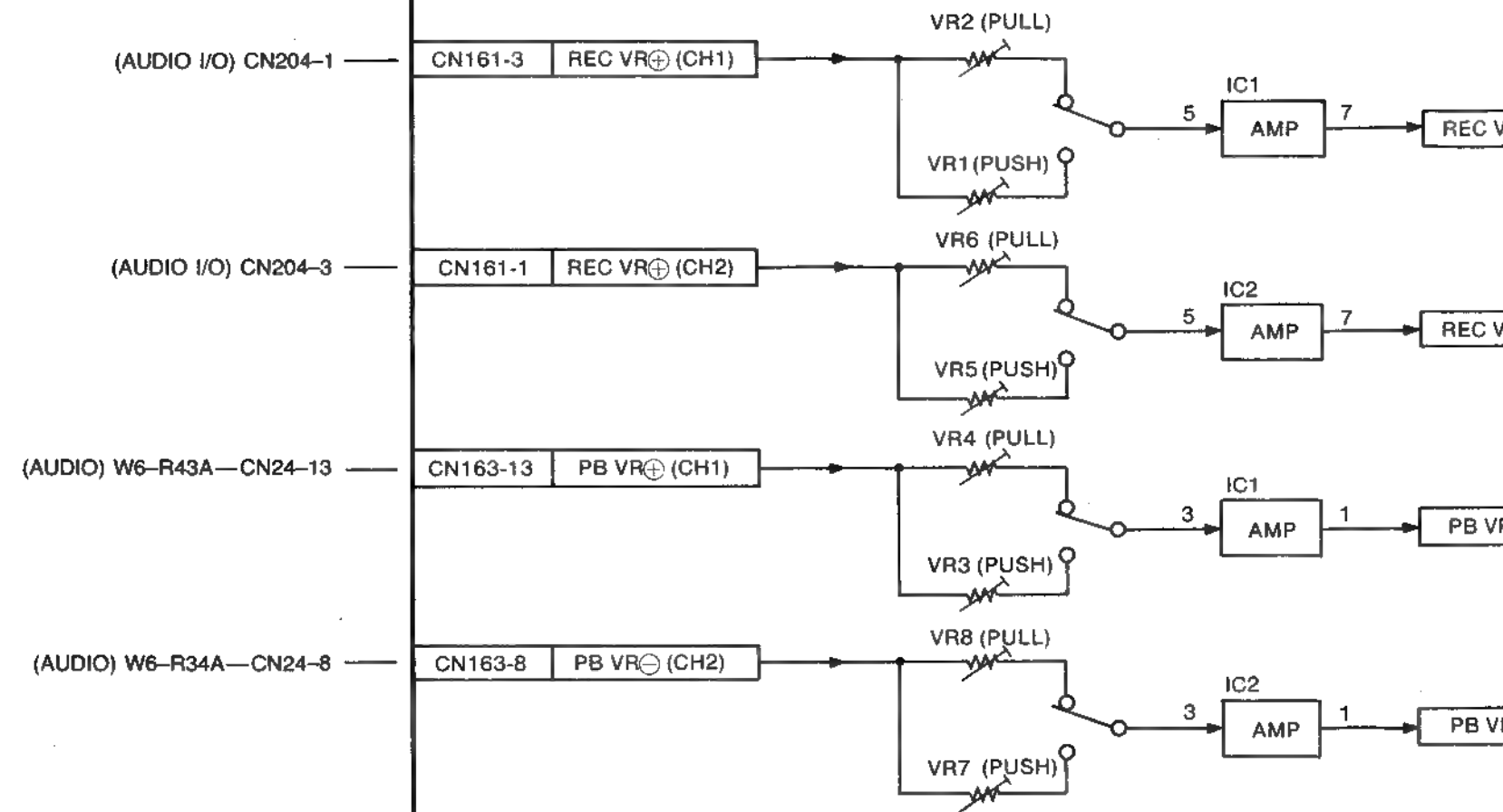
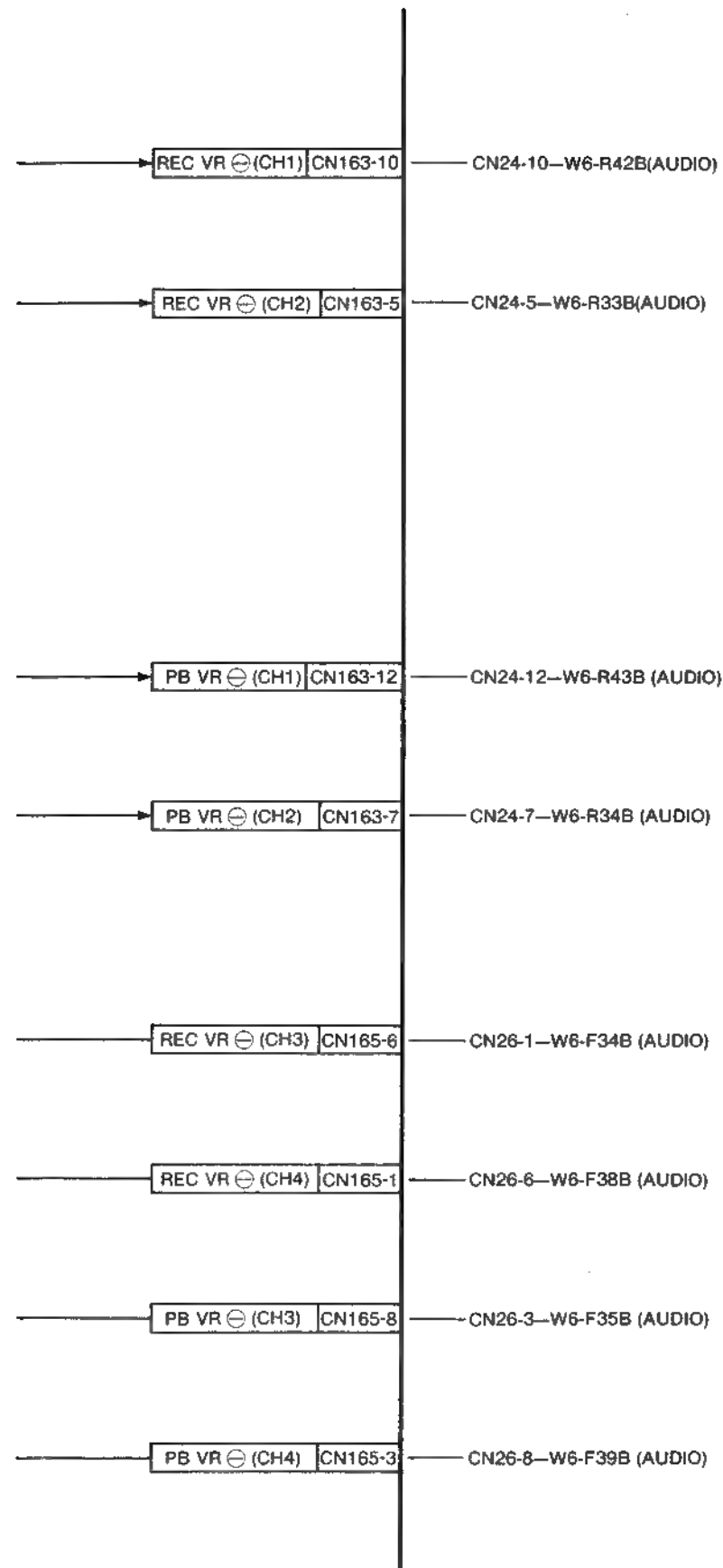
## AUDIO I/O BLOCK DIAGRAM



# AUDIO VR BLOCK DIAGRAM[FOR AU-665]

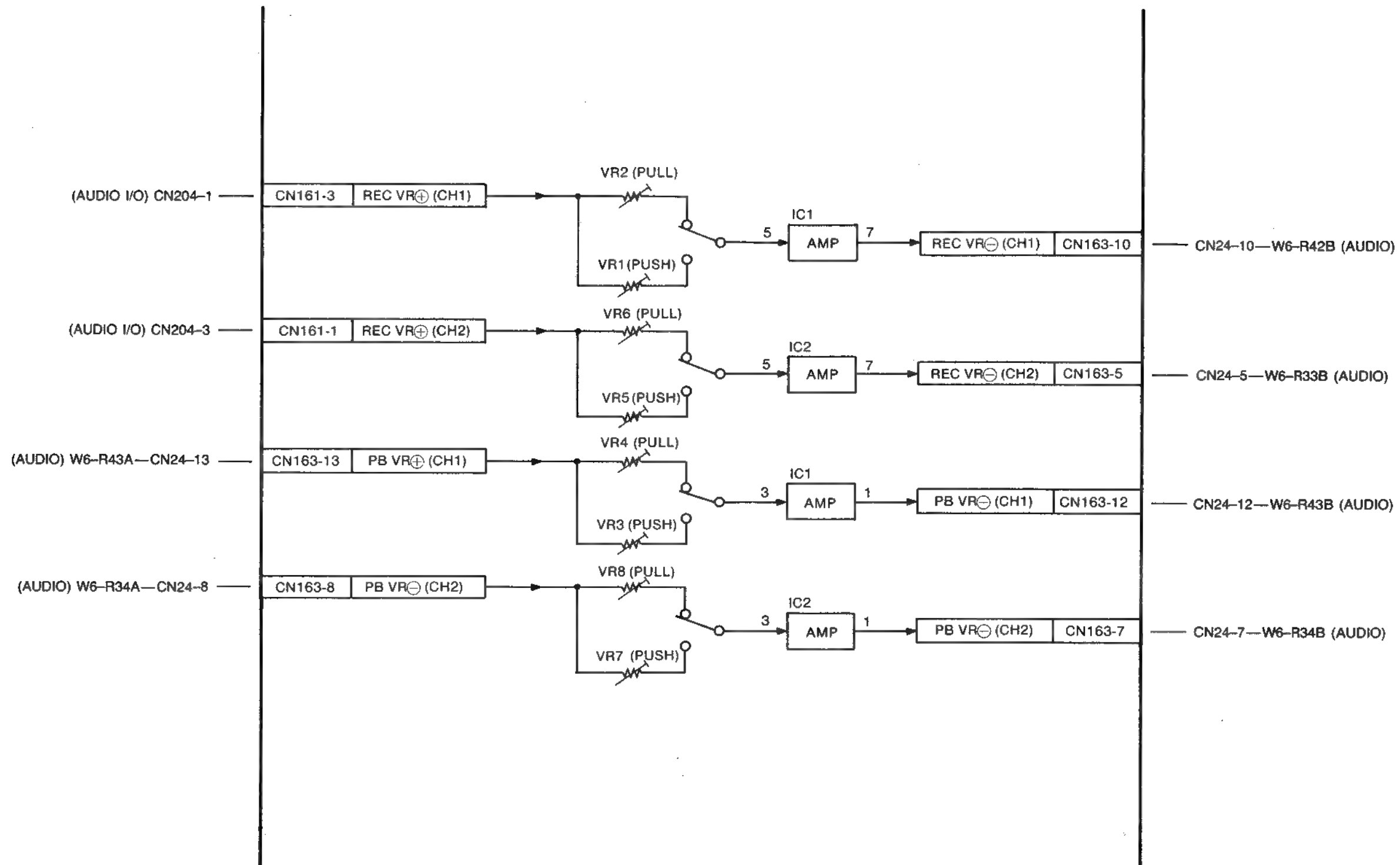


# AUDIO VR BLOCK DIAGRAM[FOR AU-65,AU-63,AU-62]



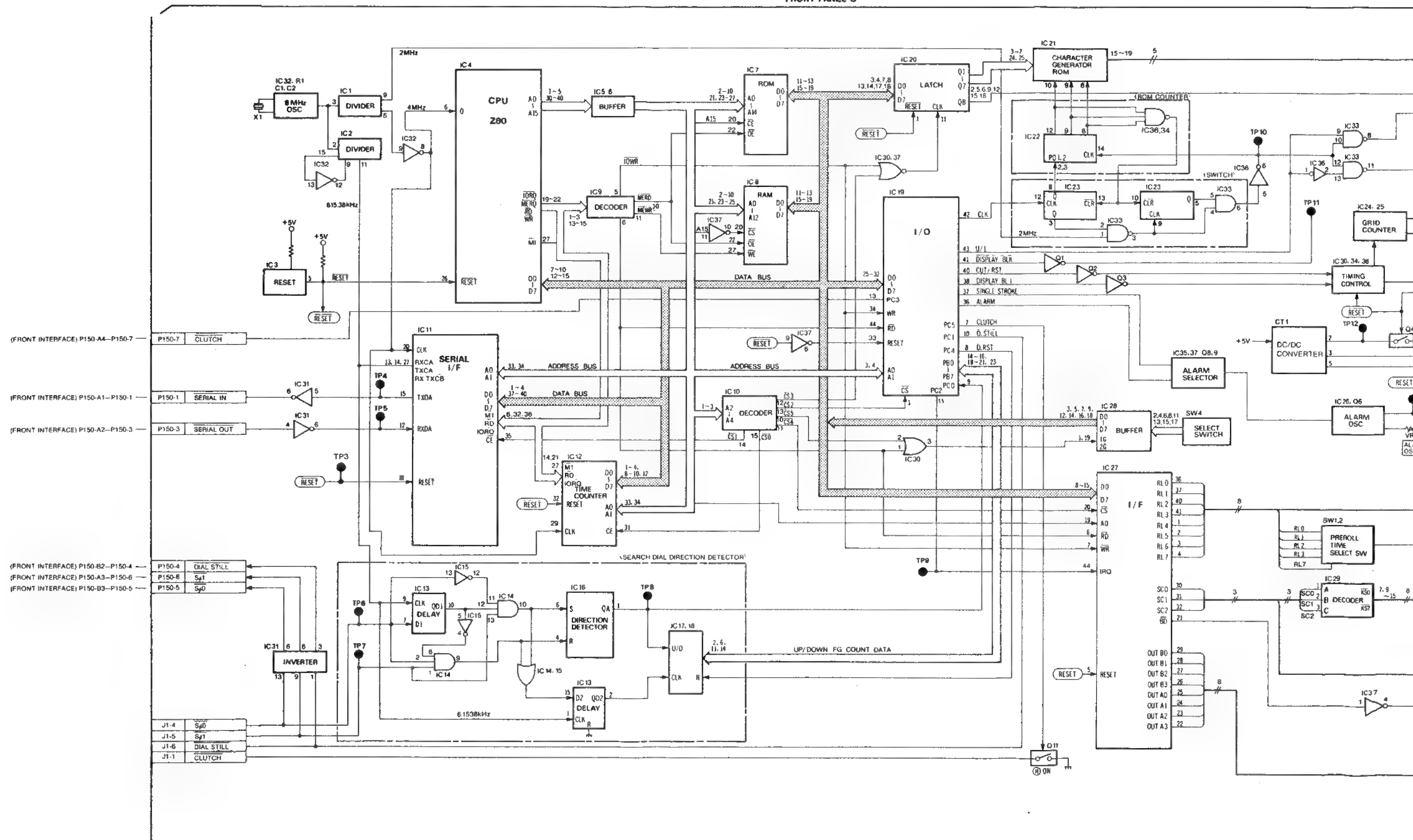


# AUDIO VR BLOCK DIAGRAM[FOR AU-65,AU-63,AU-62]



# FRONT PANEL A.B.C BLOCK DIAGRAM[FOR AU-665 NTSC]

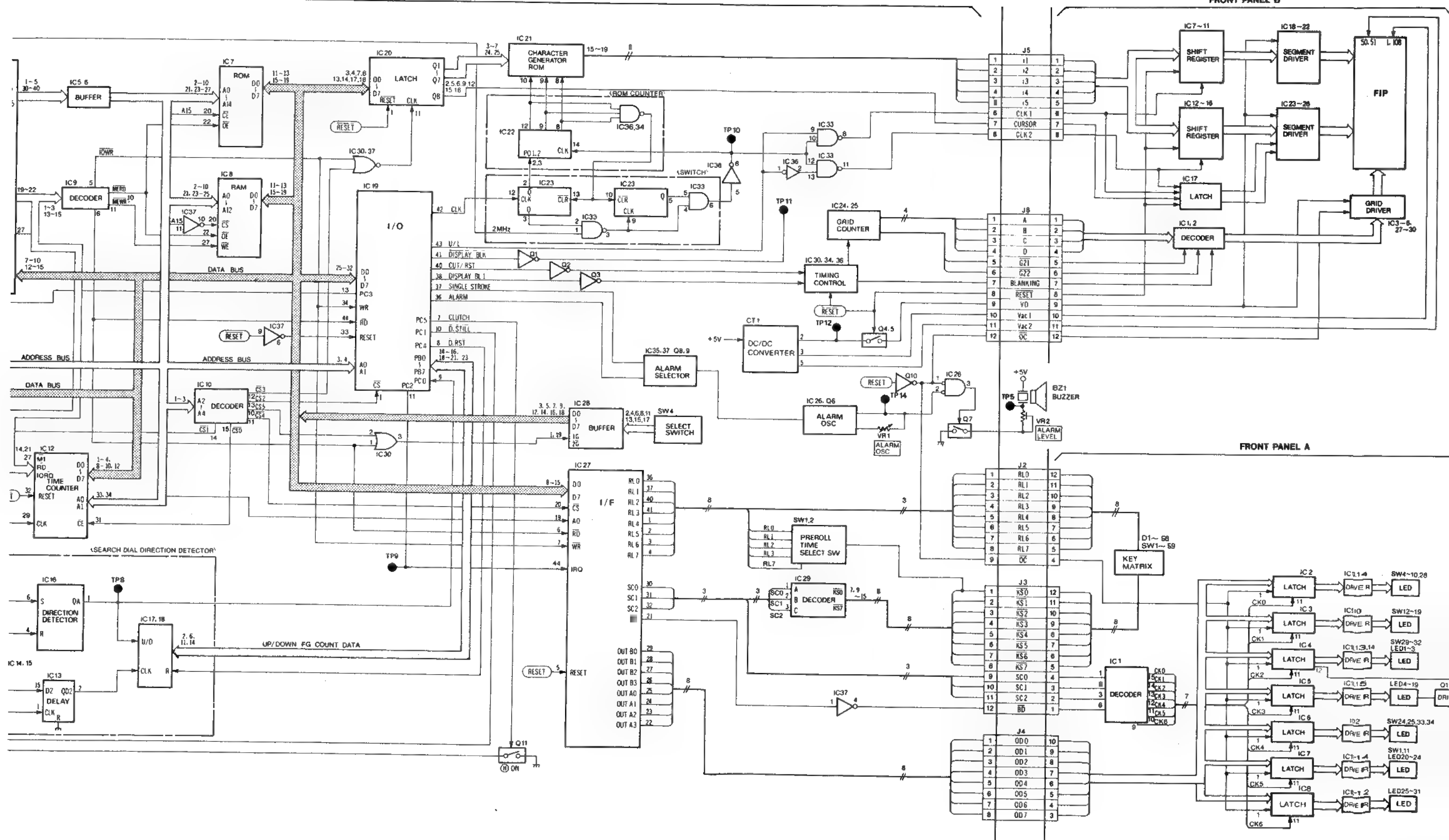
FRONT PANEL C



## GRAM[FOR AU-665 NTSC]

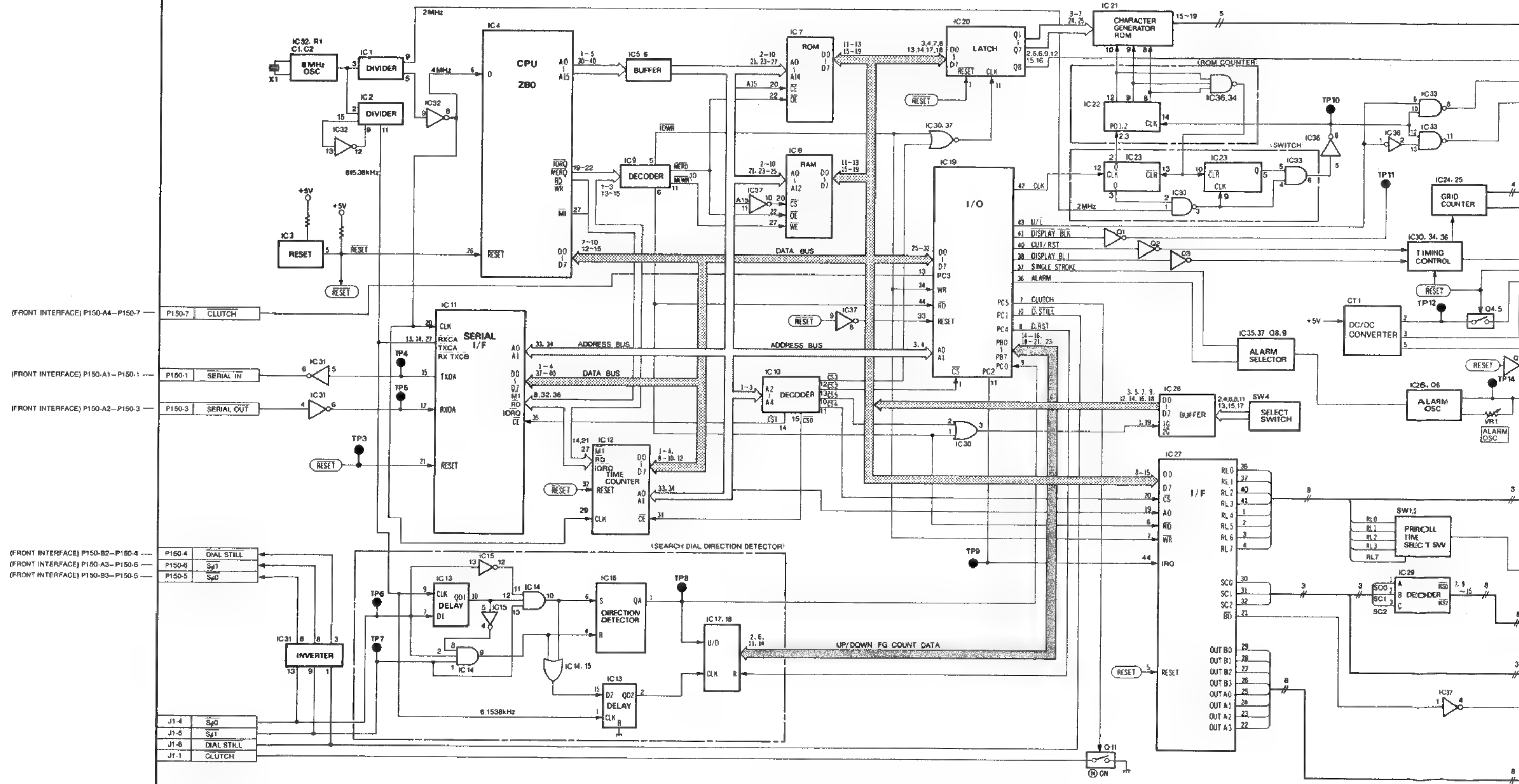
FRONT PANEL C

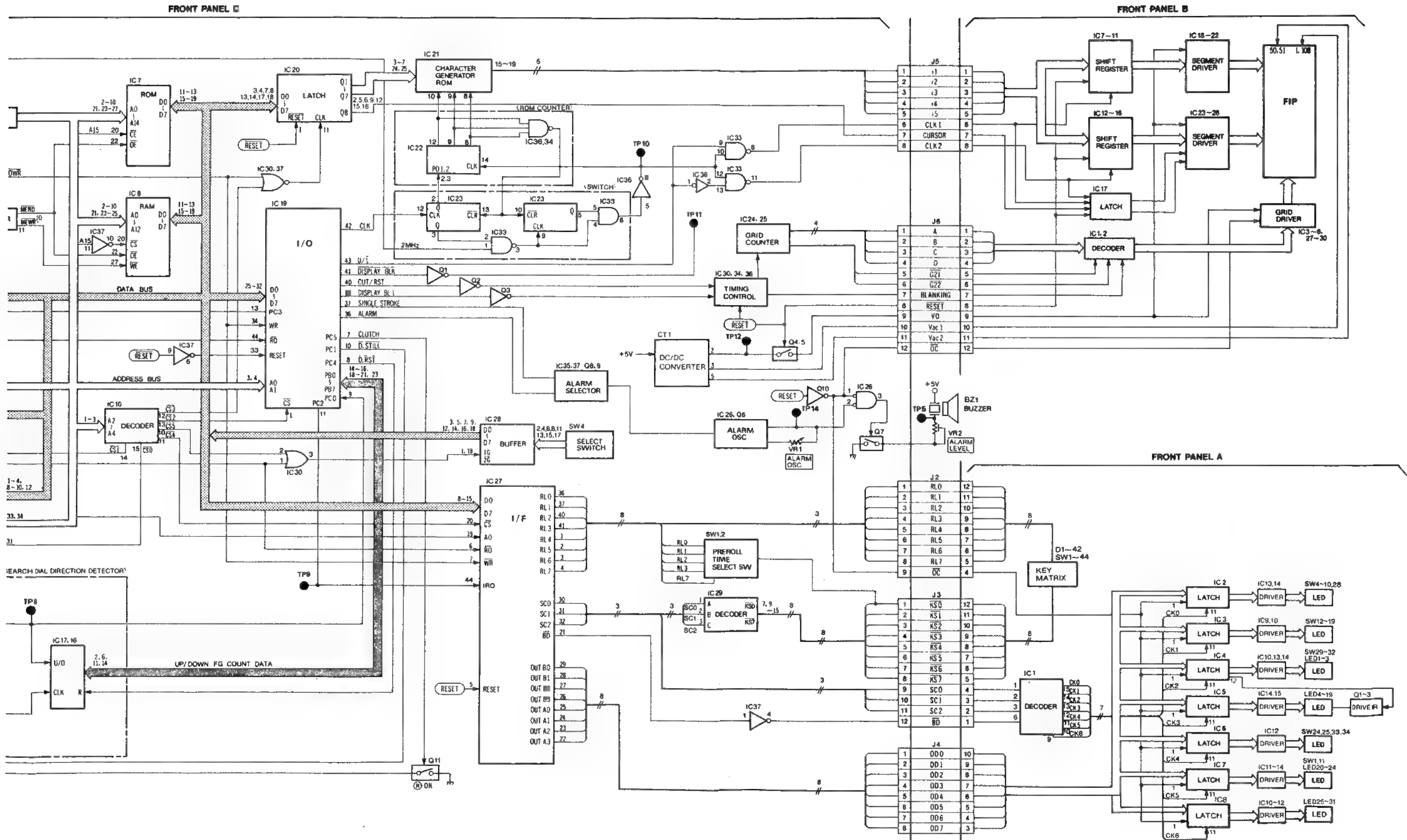
FRONT PANEL B



# FRONT PANEL A.B.C BLOCK DIAGRAM[FOR AU-65]

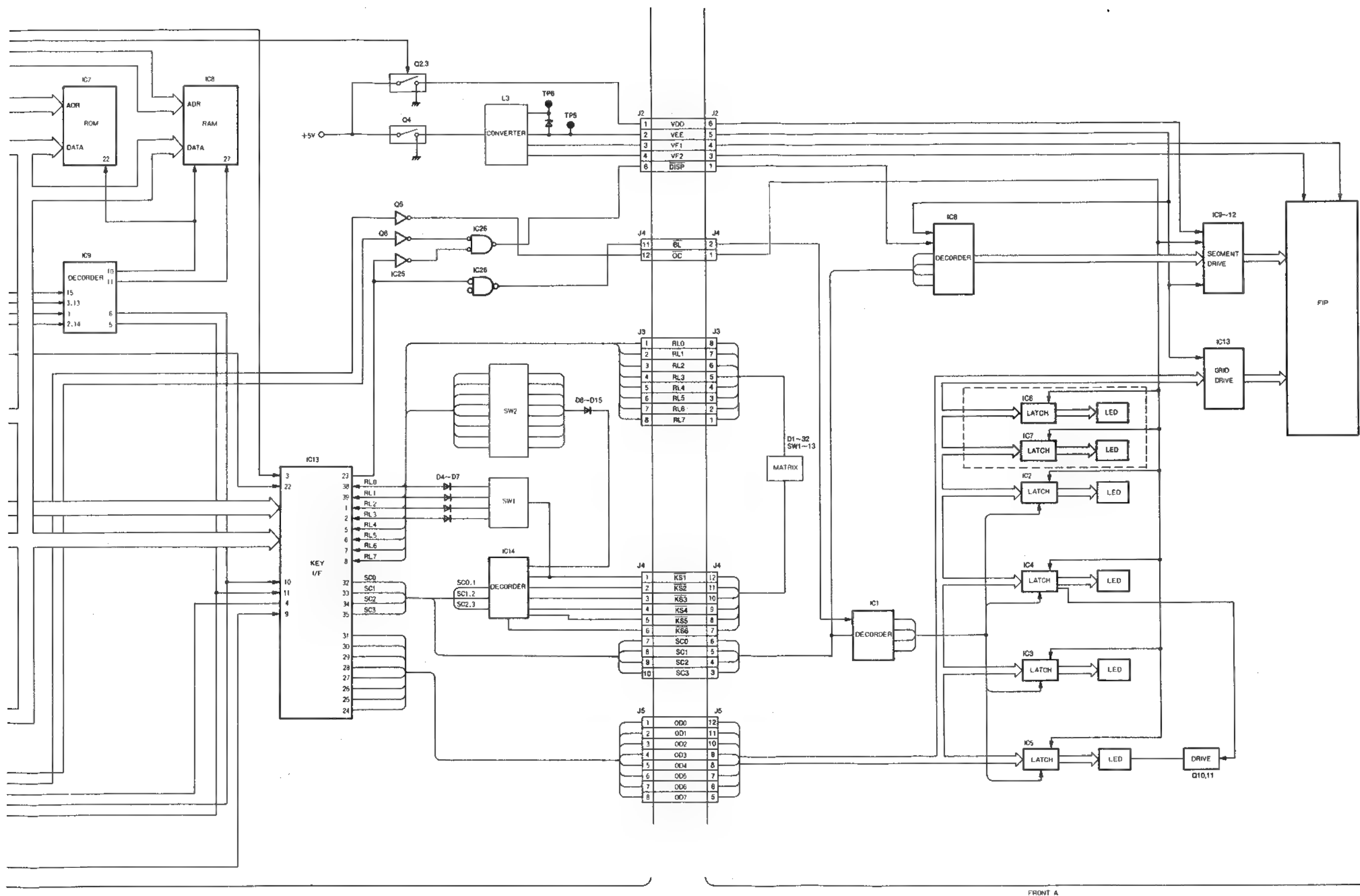
FRONT PANEL C





## 2

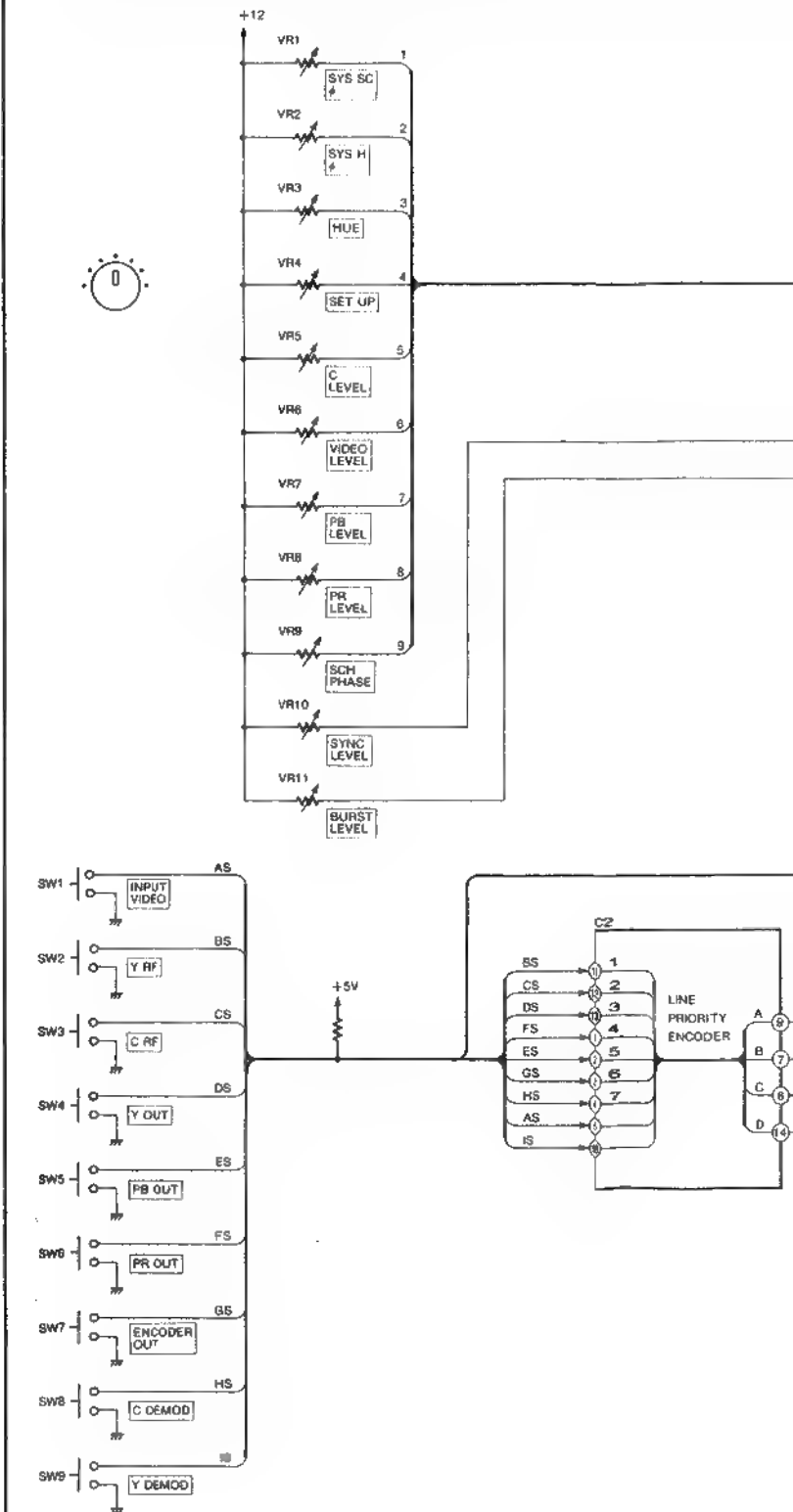




FRONT A

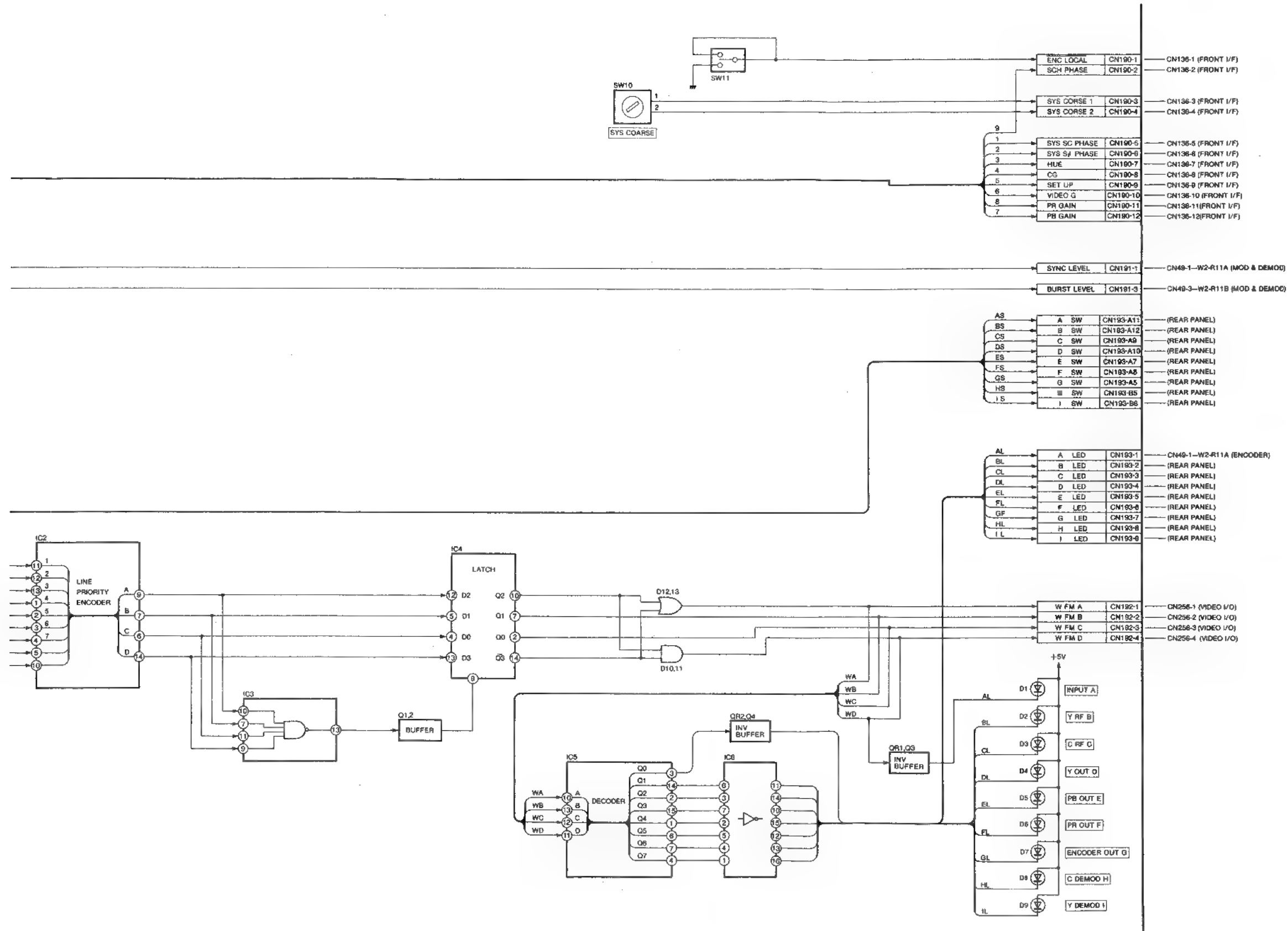
FRONT SW & VR  
BLOCK DIAGRAM

FRONT SW & VR BLOCK DIAGRAM

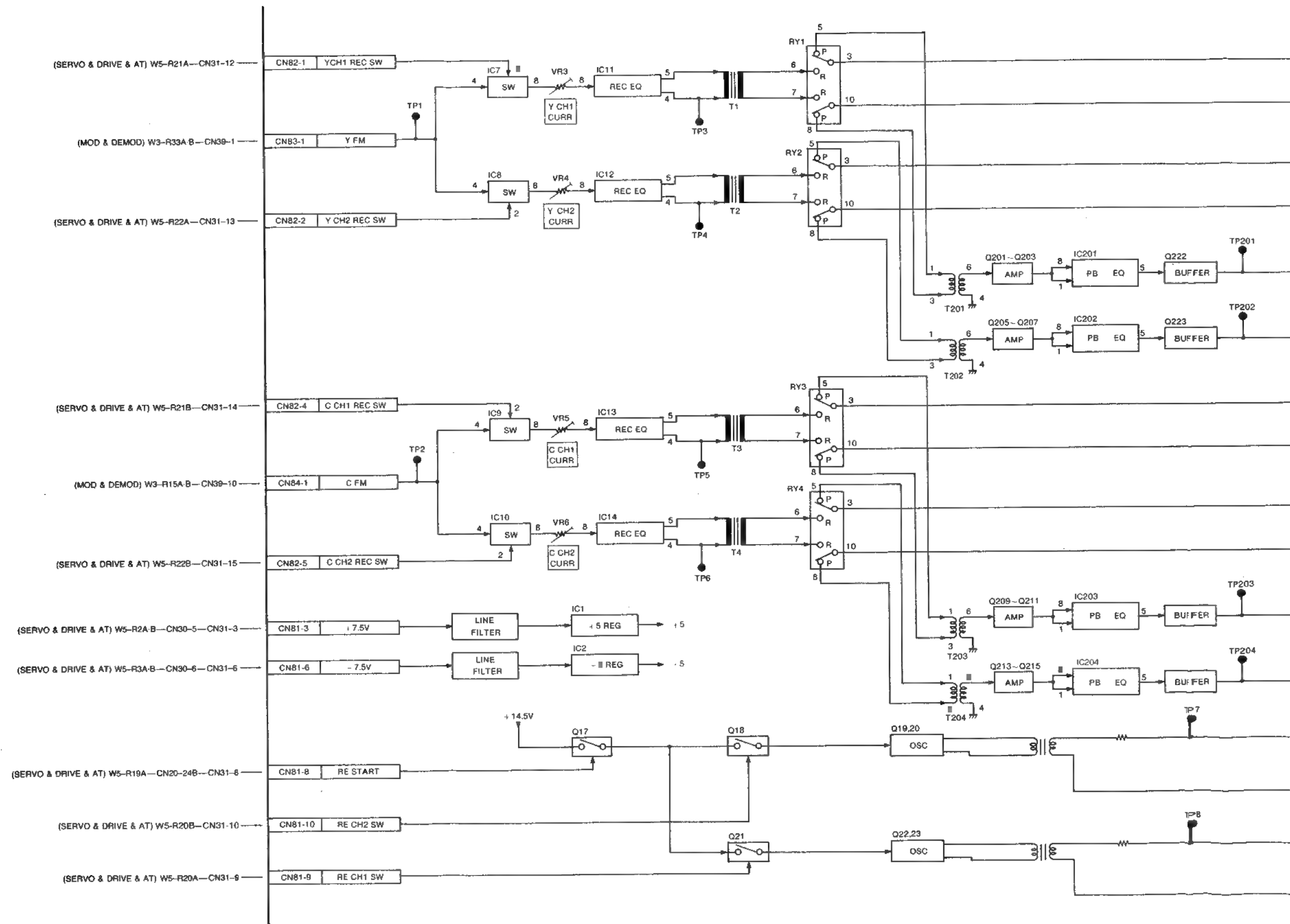




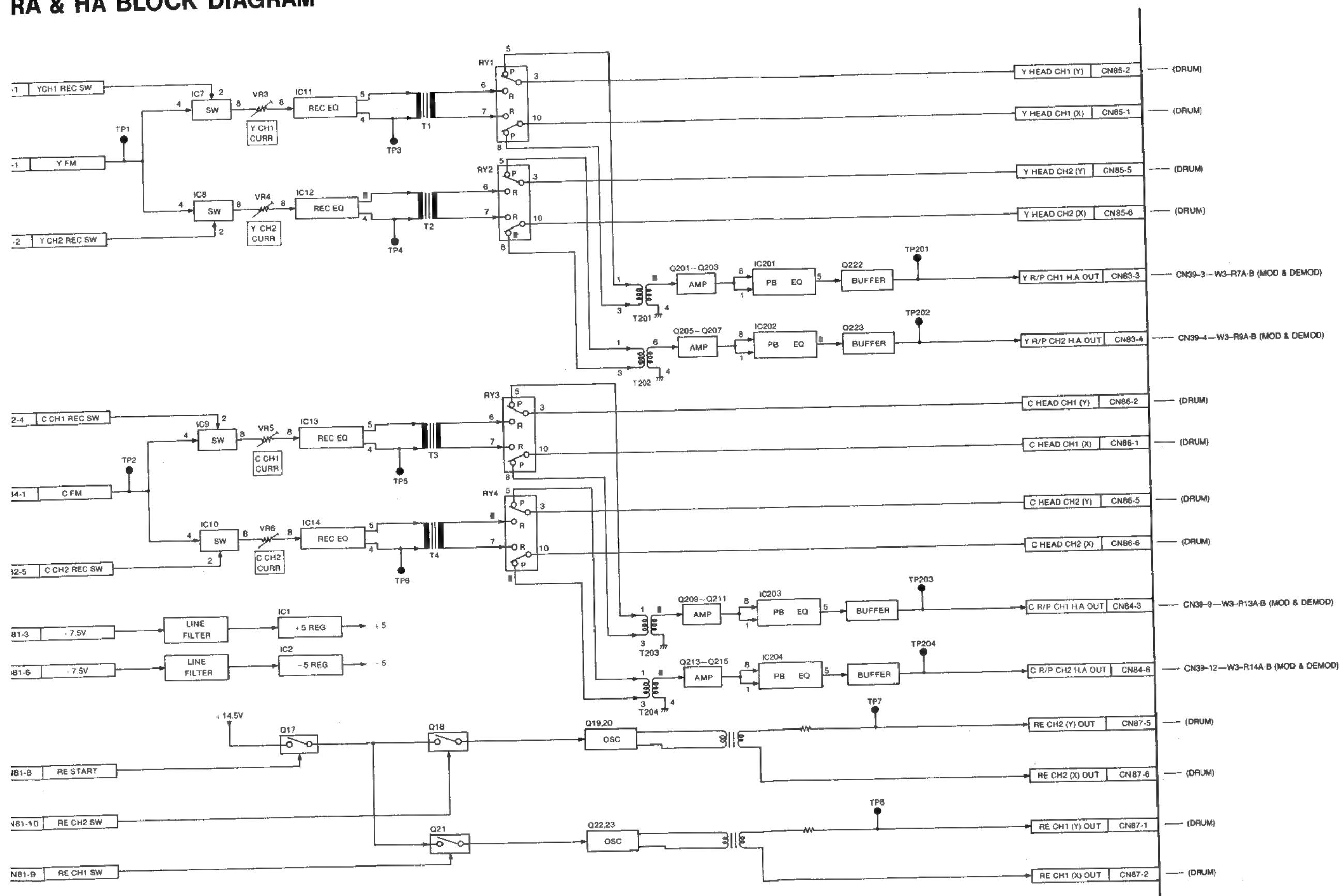
# Wiring Diagram[FOR AU-665]



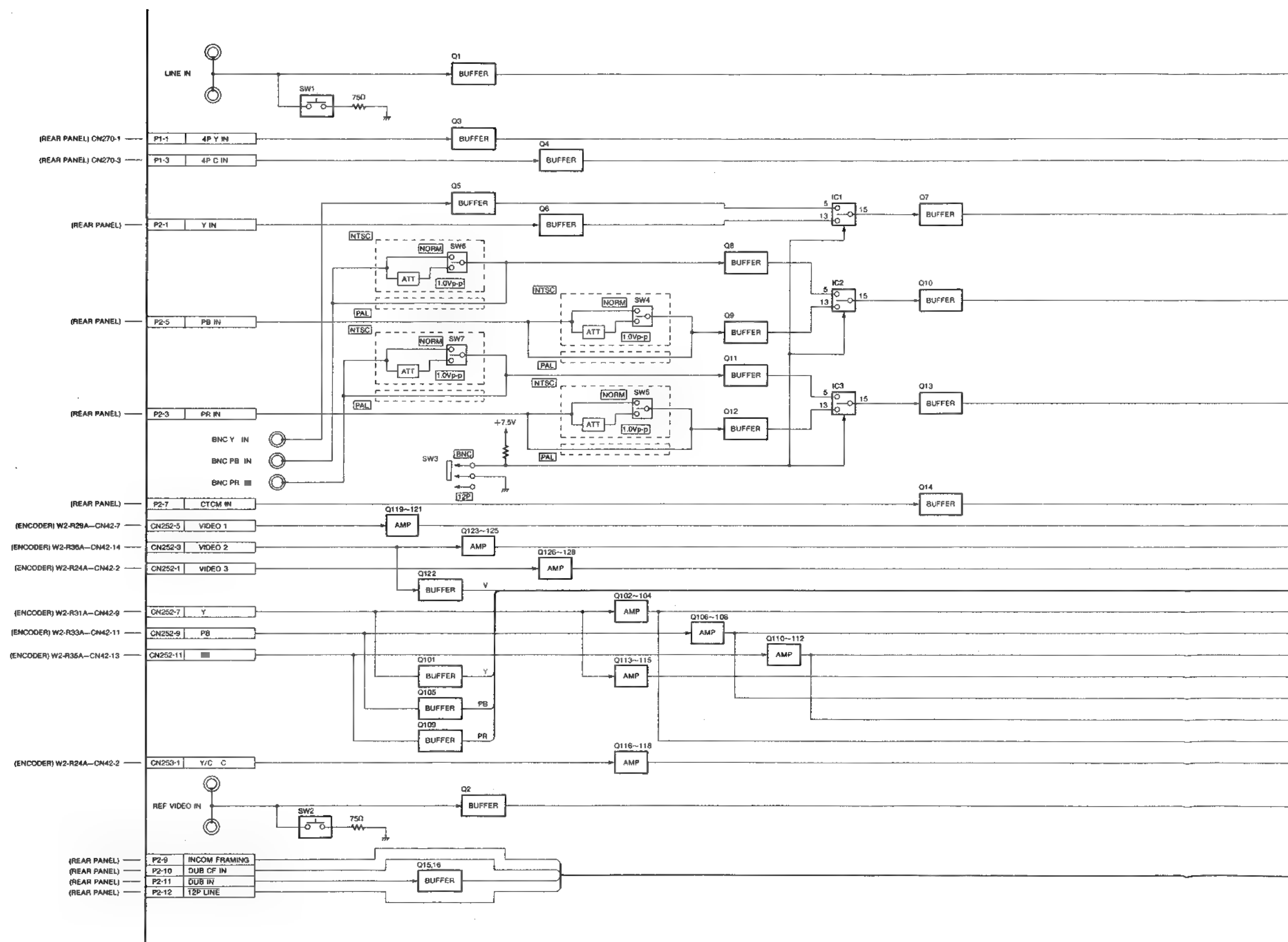
# RA & HA BLOCK DIAGRAM



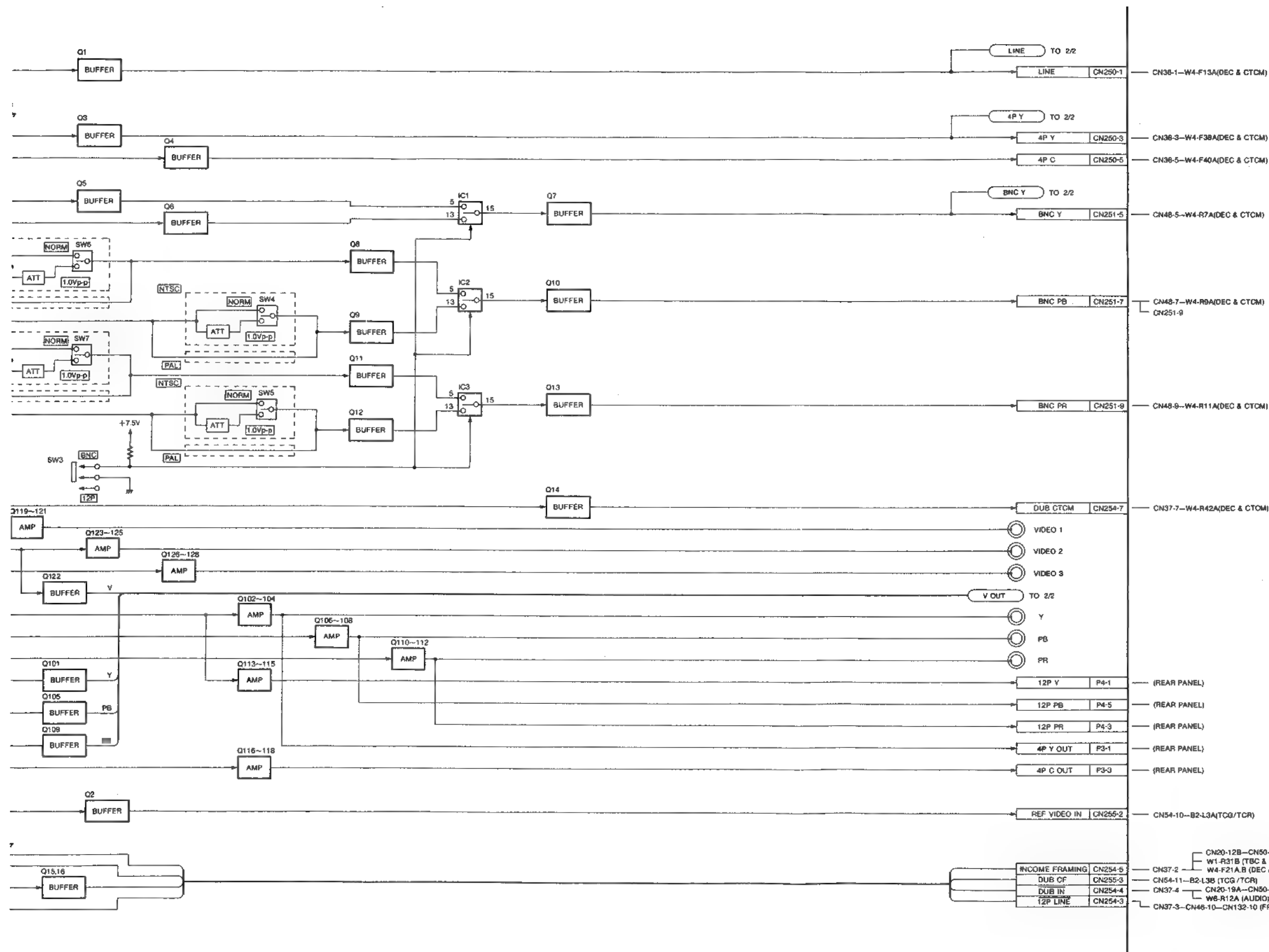
## RA &amp; HA BLOCK DIAGRAM



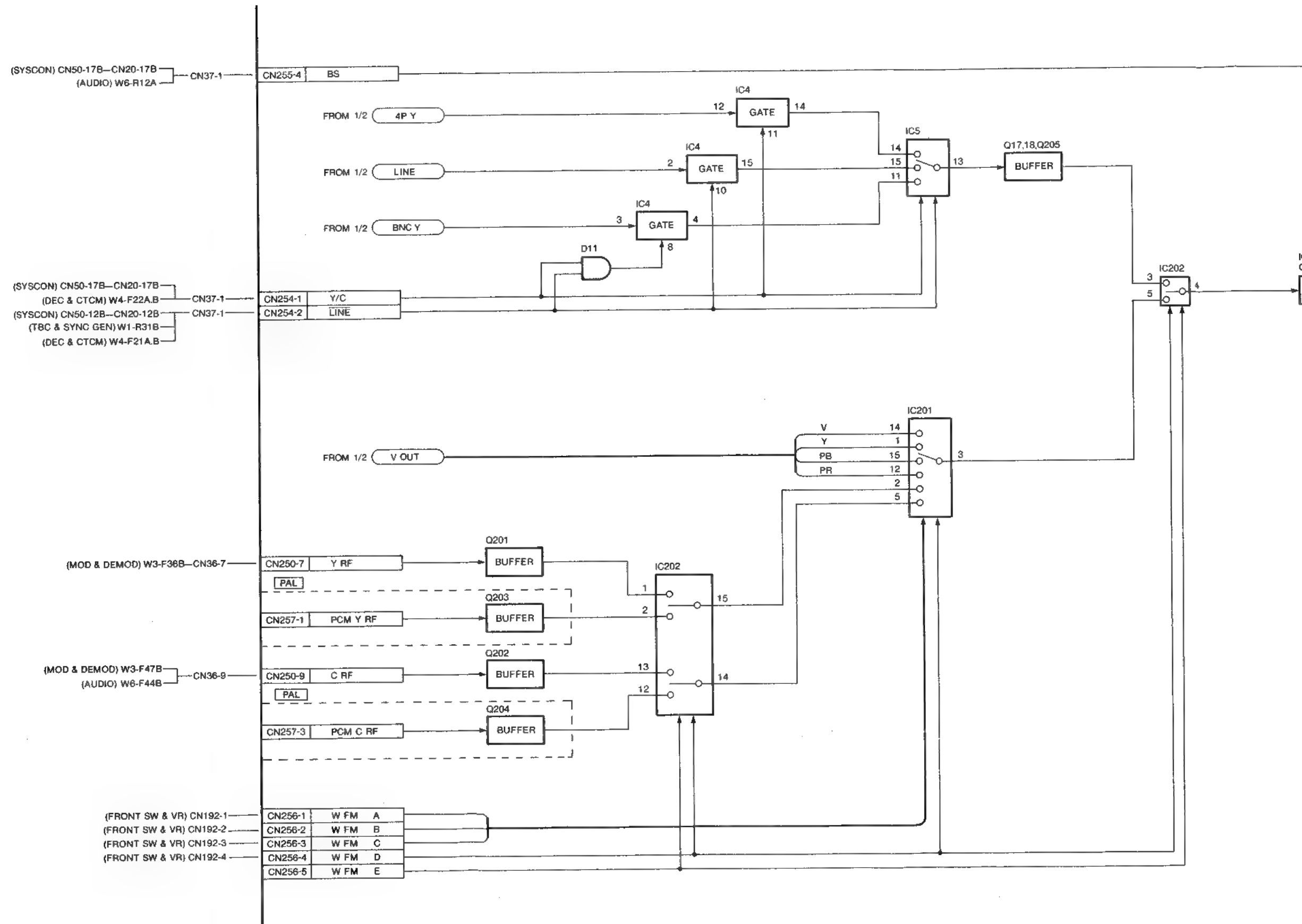
# VIDEO I/O BLOCK DIAGRAM 1/2[FOR AU-665]



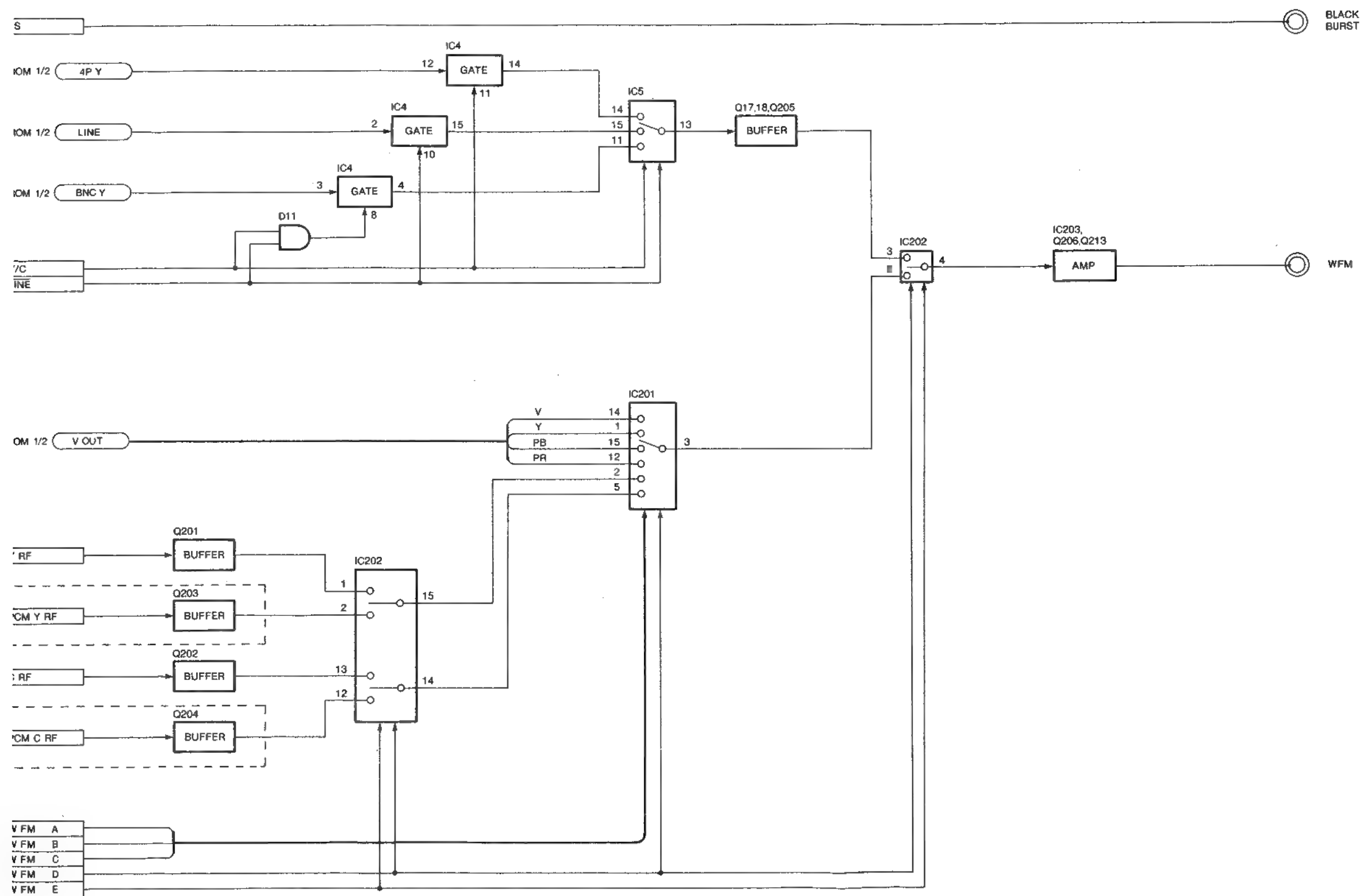
# CK DIAGRAM 1/2[FOR AU-665]



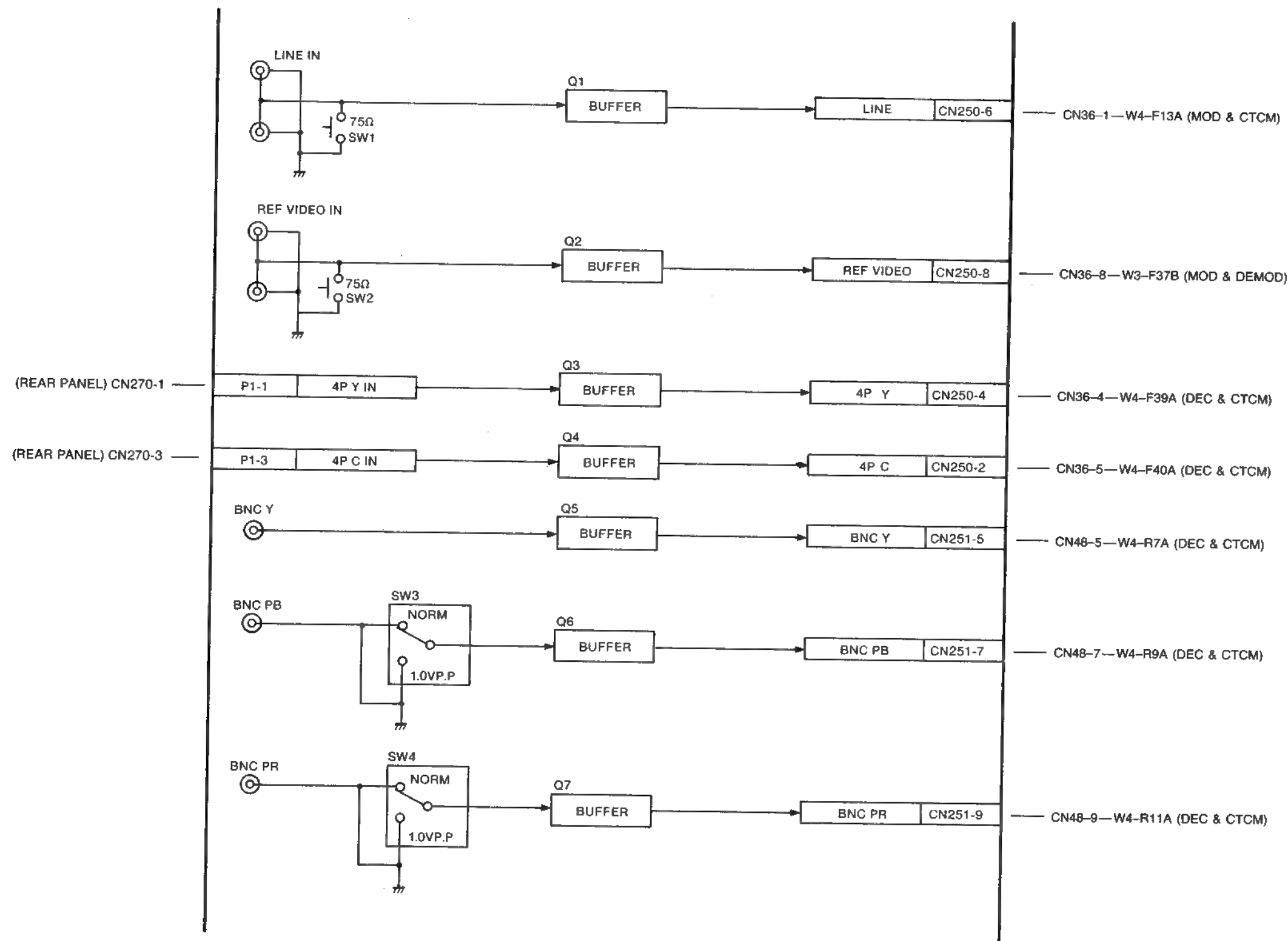
## VIDEO I/O BLOCK DIAGRAM 2/2[FOR AU-665]



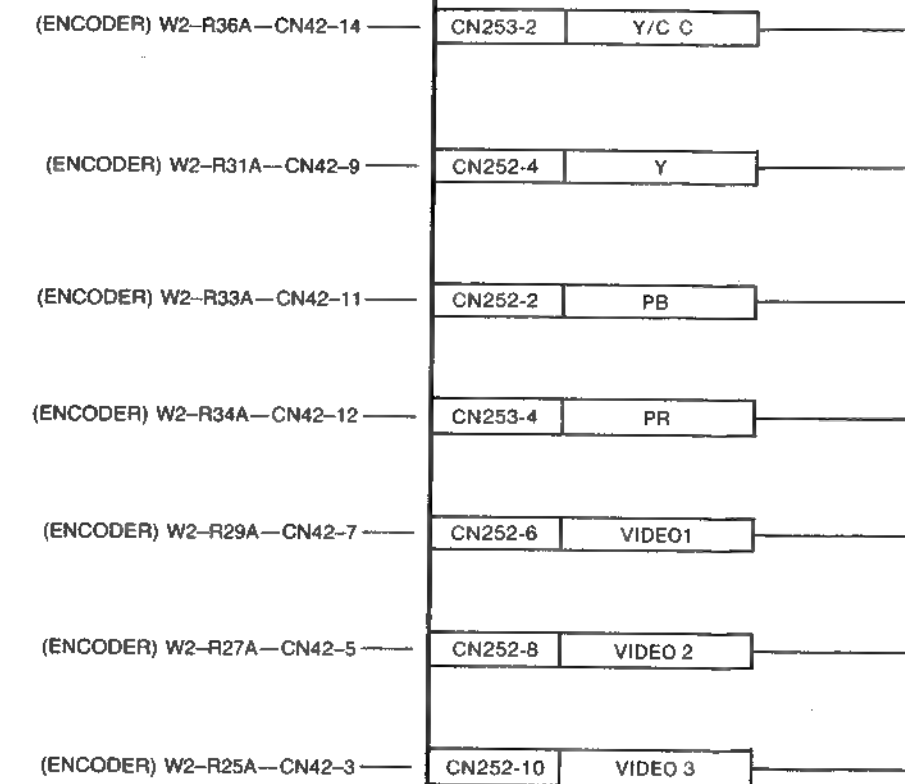
# VIDEO I/O BLOCK DIAGRAM 2/2[FOR AU-665]



# VIDEO I/O BLOCK DIAGRAM 1/2[FOR AU-65,AU-63,AU-62]

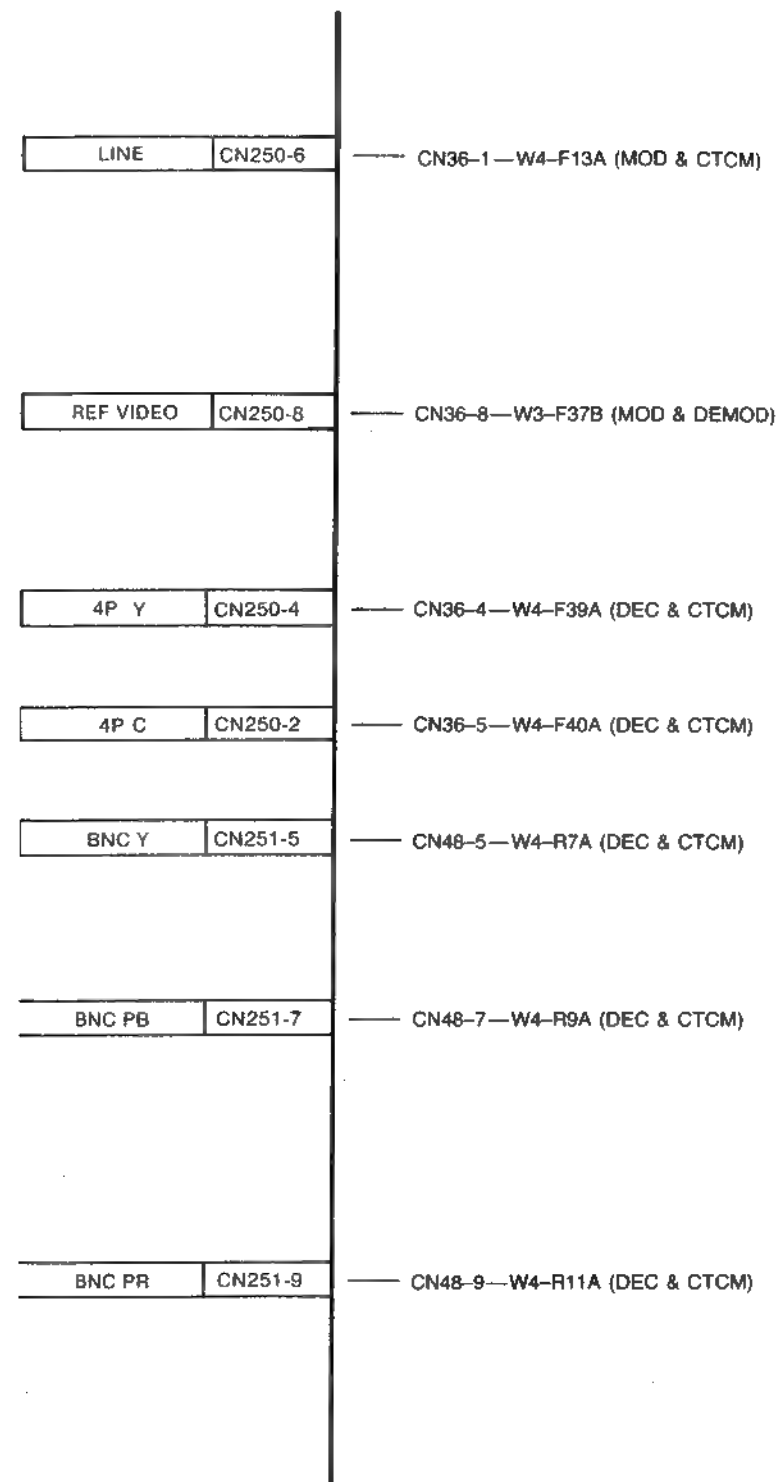


# VIDEO I/O BLOCK

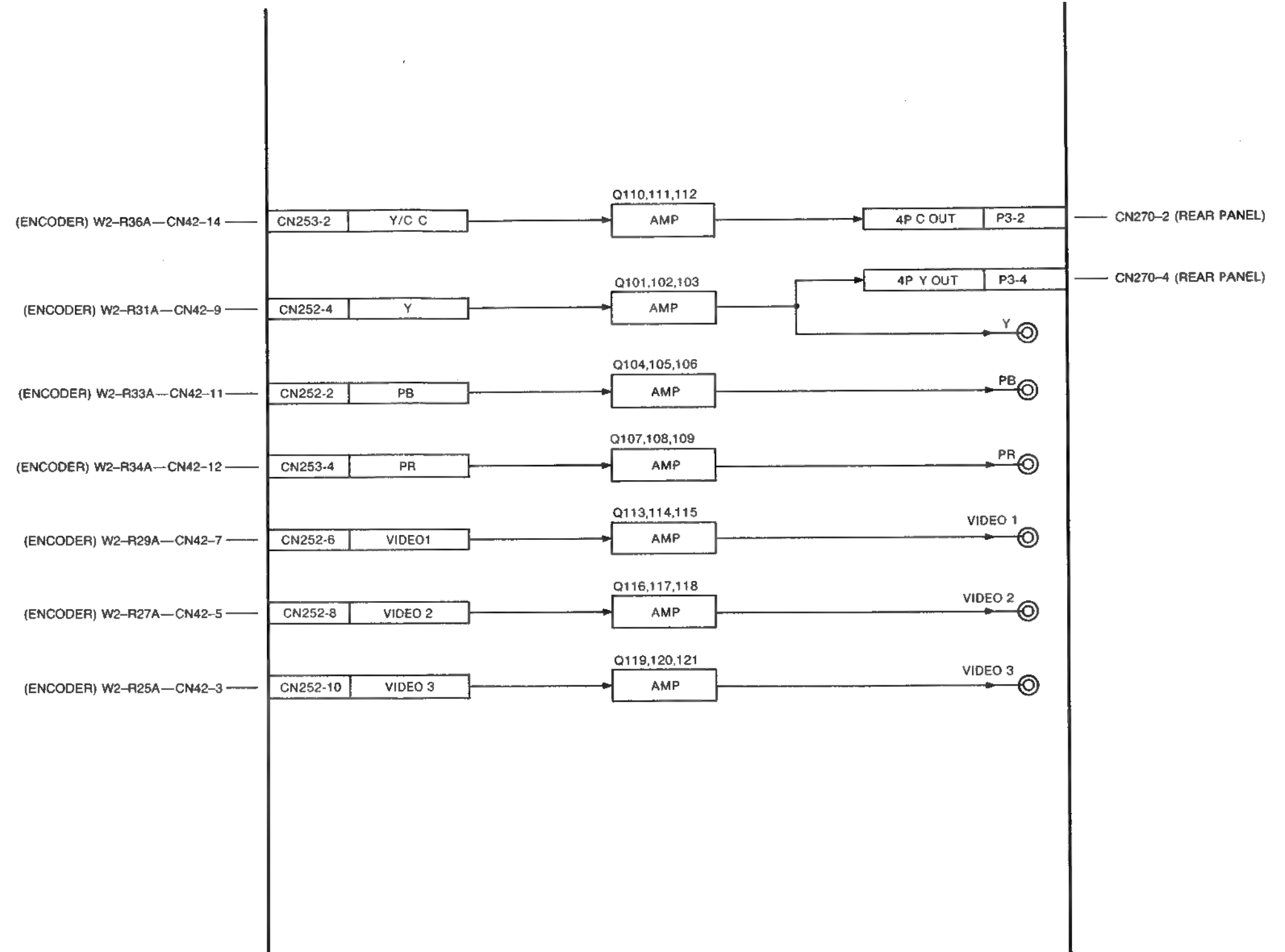




U-65,AU-63,AU-62]



## VIDEO I/O BLOCK DIAGRAM 2/2[FOR AU-65,AU-63,AU-62]



## CN NO. INFORMATION

| CN/P NO. | NAME         | LOCATION NO. |
|----------|--------------|--------------|
| CN8      | W.MOTHER     | 15           |
| CN9      | W.MOTHER     | 15           |
| CN12     | W.MOTHER     | 15           |
| CN13     | W.MOTHER     | 15           |
| CN14     | W.MOTHER     | 15           |
| CN15     | W.MOTHER     | 15           |
| CN17     | W.MOTHER     | 15           |
| CN20     | W.MOTHER     | 2            |
| CN21     | W.MOTHER     | 2            |
| CN22     | W.MOTHER     | 24           |
| CN23     | W.MOTHER     | 2            |
| CN24     | W.MOTHER     | 2            |
| CN25     | W.MOTHER     | 24           |
| CN26     | W.MOTHER     | 2            |
| CN28     | W.MOTHER     | 24           |
| CN30     | W.MOTHER     | 2            |
| CN31     | W.MOTHER     | 15           |
| CN34     | W.MOTHER     | 2            |
| CN35     | W.MOTHER     | 15           |
| CN36     | W.MOTHER     | 24           |
| CN37     | W.MOTHER     | 24           |
| CN39     | W.MOTHER     | 15           |
| CN40     | W.MOTHER     | 2            |
| CN41     | W.MOTHER     | 2            |
| CN42     | W.MOTHER     | 24           |
| CN46     | W.MOTHER     | 2            |
| CN48     | W.MOTHER     | 24           |
| CN49     | W.MOTHER     | 24           |
| CN50     | B.MOTHER     | 1            |
| CN51     | B.MOTHER     | 1            |
| CN52     | B.MOTHER     | 1            |
| CN53     | B.MOTHER     | 22           |
| CN54     | B.MOTHER     | 22           |
| CN55     | B.MOTHER     | 14           |
| CN56     | B.MOTHER     | 1            |
| CN57     | B.MOTHER     | 14           |
| CN58     | B.MOTHER     | 1            |
| CN59     | B.MOTHER     | 1            |
| CN60     | B.MOTHER     | 1            |
| CN81     | RA & HA & RE | 18           |
| CN82     | RA & HA & RE | 18           |

| CN/P NO. | NAME              | LOCATION NO. |
|----------|-------------------|--------------|
| CN83     | RA & HA & RE      | 18           |
| CN84     | RA & HA & RE      | 18           |
| CN85     | RA & HA & RE      | 18           |
| CN86     | RA & HA & RE      | 18           |
| CN87     | RA & HA & RE      | 18           |
| CN110    | MECHA INTERFACE   | 21           |
| CN111    | MECHA INTERFACE   | 21           |
| CN112    | MECHA INTERFACE   | 21           |
| CN113    | MECHA INTERFACE   | 21           |
| CN114    | MECHA INTERFACE   | 21           |
| CN115    | MECHA INTERFACE   | 21           |
| CN116    | MECHA INTERFACE   | 21           |
| CN117    | MECHA INTERFACE   | 21           |
| CN118    | MECHA INTERFACE   | 21           |
| CN119    | MECHA INTERFACE   | 21           |
| CN120    | MECHA INTERFACE   | 21           |
| CN121    | MECHA INTERFACE   | 21           |
| CN130    | FRONT INTERFACE   | 3            |
| CN131    | FRONT INTERFACE   | 3            |
| CN132    | FRONT INTERFACE   | 3            |
| CN133    | FRONT INTERFACE   | 3            |
| CN134    | FRONT INTERFACE   | 3            |
| CN135    | FRONT INTERFACE   | 3            |
| CN136    | FRONT INTERFACE   | 3            |
| CN137    | FRONT INTERFACE   | 3            |
| CN138    | FRONT INTERFACE   | 3            |
| CN139    | FRONT INTERFACE   | 3            |
| CN140    | FRONT INTERFACE   | 3            |
| CN160    | AUDIO VR          | 7            |
| CN161    | AUDIO VR          | 7            |
| CN162    | AUDIO VR          | 7            |
| CN163    | AUDIO VR          | 7            |
| CN164    | AUDIO VR          | 7            |
| CN165    | AUDIO VR          | 7            |
| CN166    | AUDIO VR          | 7            |
| CN167    | AUDIO VR          | 7            |
| CN168    | AUDIO VR          | 7            |
| CN180    | FRONT MODE SELECT | 8            |
| CN181    | FRONT MODE SELECT | 8            |
| CN190    | FRONT SW & VR     | 4            |
| CN191    | FRONT SW & VR     | 23           |

| CN/P NO. | NAME           | LOCATION NO. |
|----------|----------------|--------------|
| CN192    | FRONT SW & VR  | 23           |
| CN193    | FRONT SW & VR  | 23           |
| CN200    | AUDIO I/O      | 26           |
| CN201    | AUDIO I/O      | 26           |
| CN202    | AUDIO I/O      | 26           |
| CN203    | AUDIO I/O      | 12           |
| CN204    | AUDIO I/O      | 12           |
| CN205    | AUDIO I/O      | 26           |
| CN206    | AUDIO I/O      | 26           |
| CN207    | AUDIO I/O      | 26           |
| CN208    | AUDIO I/O      | 26           |
| CN211    | AUDIO I/O      | 26           |
| CN212    | AUDIO I/O      | 26           |
| CN213    | AUDIO I/O      | 26           |
| CN215    | AUDIO I/O      | 26           |
| CN240    | AUDIO I/O      | 26           |
| CN242    | AUDIO I/O      | 26           |
| CN250    | VIDEO I/O      | 29           |
| CN251    | VIDEO I/O      | 29           |
| CN252    | VIDEO I/O      | 29           |
| CN253    | VIDEO I/O      | 29           |
| CN254    | VIDEO I/O      | 29           |
| CN255    | VIDEO I/O      | 29           |
| CN256    | VIDEO I/O      | 29           |
| CN257    | VIDEO I/O      | 29           |
| CN261    | AUDIO INPUT SW | 27           |
| CN262    | AUDIO INPUT SW | 27           |
| CN270    | REAR PANEL     | 30           |
| CN280    | REAR PANEL     | 30           |
| CN302    | W.MOTHER       | 15           |
| CN330    | AT HA          | 19           |
| CN331    | AT HA          | 19           |
| CN332    | AT HA          | 19           |
| CN350    | AT POWER       | 16           |
| CN601    | W.MOTHER       | 24           |
| CN602    | W.MOTHER       | 24           |

| CN/P NO. | NAME              | LOCATION NO. |
|----------|-------------------|--------------|
| P0       | DRUM              | 17           |
| P01      | DRUM              | 17           |
| P1       | VIDEO I/O         | 29           |
| P2       | VIDEO I/O         | 29           |
| P3       | VIDEO I/O         | 29           |
| P4       | VIDEO I/O         | 29           |
| P10      | AT POWER          | 16           |
| P100     | METER LAMP        | 11           |
| P101     | W.MOTHER          | 15           |
| P109     | HEAD PHONE        | 13           |
| P112     | FRONT UP PANEL    | 5            |
| P113     | FRONT UP PANEL    | 5            |
| P115     | FRONT UP PANEL    | 5            |
| P128     | VIDEO VR          | 10           |
| P150     | FRONT INTERFACE   | 3            |
| P153     | FRONT MODE SELECT | 8            |
| P155     | FRONT MODE SELECT | 8            |
| P301     | W.MOTHER          | 15           |
| P405     | MECHA INTERFACE   | 21           |
| P406     | CARRIAGE          | 20           |
| P431     | MECHA INTERFACE   | 21           |
| P432     | MECHA INTERFACE   | 21           |
| P551     | W.MOTHER          | 15           |
| P553     | W.MOTHER          | 15           |
| P61002   | MECHA INTERFACE   | 21           |
| P61003   | MECHA INTERFACE   | 21           |
| P61006   | MECHA INTERFACE   | 21           |
| P61007   | MECHA INTERFACE   | 21           |
| P61008   | MECHA INTERFACE   | 21           |
| P61012   | DRUM              | 17           |
| P61013   | DRUM              | 17           |
| P61017   | MECHA INTERFACE   | 21           |
| P61020   | MECHA INTERFACE   | 21           |
| P61021   | MECHA INTERFACE   | 21           |
| P61022   | MECHA INTERFACE   | 21           |
| P61025   | MECHA INTERFACE   | 21           |
| P61027   | MECHA INTERFACE   | 21           |
| P61032   | MECHA INTERFACE   | 21           |
| P61033   | MECHA INTERFACE   | 21           |

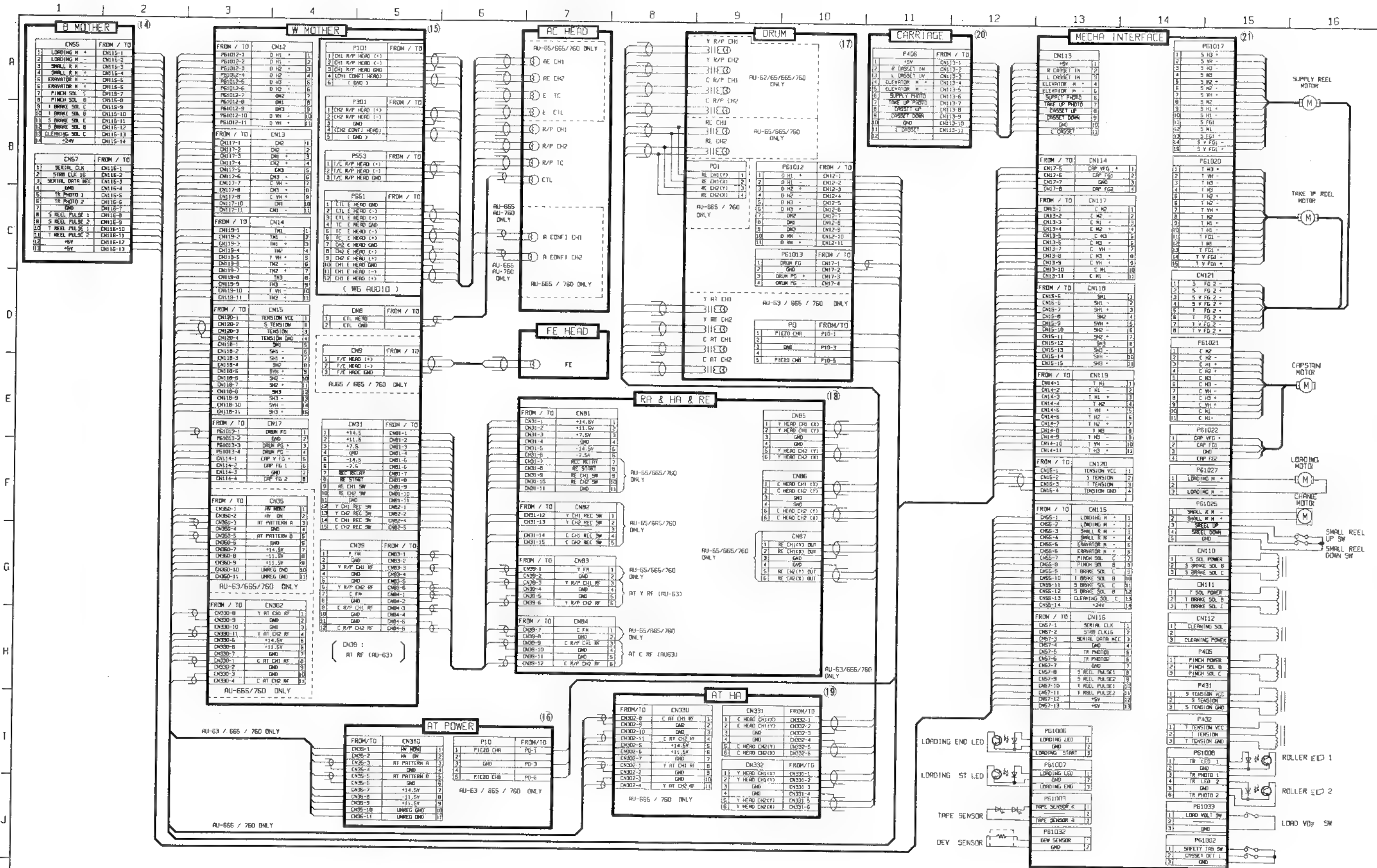
| CN/P NO. | NAME         | LOCATION NO. |
|----------|--------------|--------------|
| POWER 1  | W.MOTHER     | 24           |
| POWER 2  | W.MOTHER     | 24           |
| POWER 10 | B.MOTHER     | 22           |
| POWER 20 | POWER FILTER | 28           |
| POWER 21 | POWER FILTER | 28           |
| POWER 22 | POWER FILTER | 28           |

| CN/P NO. | NAME      | LOCATION NO. |
|----------|-----------|--------------|
| CP1      | POWER BOX | 25           |
| CP51     | POWER BOX | 25           |
| CP52     | POWER BOX | 25           |
| CP53     | POWER BOX | 25           |

CN : CONNECTOR  
 P : PLUG  
 LOCATION NO. :  
 REFERENCE NO OF P.C.BOARD (REFER  
 TO THE INTERCONNECTION SCHEMATIC  
 DIAGRAM)



# INTERCONNECTION 2/3







## WO 0



# WO (W,MOTHER) SCHEMATIC DIAGRAM 2/4

16 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

LY)

## B MOTHER

| VJP1232T |          |           |                    |
|----------|----------|-----------|--------------------|
| CN21     |          | FROM / TO |                    |
| 1        | LTOR EXT | W5-F30    | RU-65/66S/760 ONLY |
| 2        | CTC GND  | W5-F34    | RU-65/66S/760 ONLY |
| 3        | TCR PB   | W5-F38    |                    |
| 4        | TCR CLK  | W5-F38    |                    |
| 5        | TC GND   | W5-F38    |                    |
| 6        | TC BL    | W5-F38    |                    |

| VJP1932T |              |                        |                    |
|----------|--------------|------------------------|--------------------|
| CN30     |              | FROM / TO              |                    |
| 1        | CRP MAIN CLK | W5-R20                 |                    |
| 2        | GND          | W5-R1A,B               | CH31-4 CH30-4      |
| 3        | CRP OSC      | W5-R20                 |                    |
| 4        | GND          | W5-R1A,B               | CH31-4 CH30-2      |
| 5        | +2.5V        | W5-R2A,B               |                    |
| 6        | +2.5V        | W5-R3A,B               |                    |
| 7        | TR PG 1      | W5-R1A                 | RU-65/66S/760 ONLY |
| 8        | GND          | W5-R2A,B               | RU-65/66S/760 ONLY |
| 9        | (VREF)       | W5-R2A,B               | RU-65/66S/760 ONLY |
| 10       | (VREF)       | W5-R2A,B               | RU-65/66S/760 ONLY |
| 11       | GND          | W5-R2A,B               | RU-65/66S/760 ONLY |
| 12       | (CRP SYNC)   | W1-R1A W4-R3A W4-R2A   | RU-65/66S/760 ONLY |
| 13       | (VREF)       | W1-R1A W4-R2A W5-R2A,B | RU-65/66S/760 ONLY |
| 14       | GND          | W5-R3A,B               | RU-65/66S/760 ONLY |
| 15       | Y PG 2       | W5-R3A,B               | RU-65/66S/760 ONLY |

| VJP1234T (AU-66S/635 ONLY) |             |           |  |
|----------------------------|-------------|-----------|--|
| CN34                       |             | FROM / TO |  |
| 1                          | STILL POS F | W5-R3A    |  |
| 2                          | STILL POS R | W5-R3A    |  |
| 3                          | ST          | W5-R3A    |  |
| 4                          | ST DN       | W5-R3A    |  |
| 5                          | W5-R3A      |           |  |
| 6                          | ST CLUT     | W5-R41B   |  |

| VJP1932T |            |                         |                |
|----------|------------|-------------------------|----------------|
| CN41     |            | FROM / TO               |                |
| 1        | R SYNC     | W2-R1A W1-R2A           |                |
| 2        | R PF       | W1-R2A                  |                |
| 3        | GND        |                         |                |
| 4        | Y PG SYNC  | W1-F15A W2-F15A W5-F40A |                |
| 5        | TYPE V     | W1-F15A                 |                |
| 6        | GND        | W1-F15A                 |                |
| 7        | TC PF      | W1-F15A                 |                |
| 8        | R PG       | W1-R2A CH30-2A          |                |
| 9        | GND        | W1-R1A W1-R2A,B         |                |
| 10       | CH30-2A    | W2-R1A                  |                |
| 11       | CH30-2A    | W2-R1A                  |                |
| 12       | GND        | W2-R1A,B W2-R1A         |                |
| 13       | (GND CF)   | W1-R1A CH31-3           | RU-65/760 ONLY |
| 14       | DEF VIDEO1 | W1-R1A CH31-13          | RU-65/760 ONLY |
| 15       | (GND)      | W1-R1A CH31-12          | RU-65/760 ONLY |

| VJP1230T (SPARE) |                |           |  |
|------------------|----------------|-----------|--|
| CN500            |                | FROM / TO |  |
| 1                | 1 REG. PLANE 1 | W5-R1A    |  |
| 2                | 2 REG. PLANE 1 | W5-R1A    |  |
| 3                | CRP OVERIDE    | W5-R2A    |  |

| VJP2893A054 |                   |      |             |
|-------------|-------------------|------|-------------|
| FROM / TO   |                   | A NO |             |
| W1-R21A     | CH30-2A           | 1    | R FLOWING   |
| W1-R3A      |                   | 2    | NOV 1       |
| W1-F11B     |                   | 3    | SEARCH      |
| W1-R3A      |                   | 4    | TYPE 1/P    |
| W1-F15A     |                   | 5    | EJECT TYPE  |
| W1-R3A      |                   | 6    | EXT         |
| W1-R3A      |                   | 7    | CP SELECT 2 |
| W1-R2A      |                   | 8    | CP SELECT 3 |
| W1-F15A     | W2-F15A W3-F15A,B | 9    | CP SELECT 1 |
| W1-F22A     |                   | 10   | PRM DN      |
| W1-R3A      |                   | 11   | REF SR      |
| W1-R3A      |                   | 12   | REF DET     |
| W1-R3A      |                   | 13   | STB         |
| W1-F15A     |                   | 14   | V PHASE 1   |
| W1-F15A     |                   | 15   | PHASE 1A    |
| W1-F15A     | W2-F15A W4-R3A    | 16   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 17   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 18   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 19   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 20   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 21   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 22   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 23   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 24   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 25   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 26   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 27   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 28   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 29   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 30   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 31   | REF DET     |
| W1-F15A     | W2-F15A W4-R3A    | 32   | REF DET     |

## DIGITAL INTERFACE

(AU-66S/760 OPTION)

| CN501     |  |      |       |
|-----------|--|------|-------|
| FROM / TO |  | A NO |       |
| W1-F40A   |  | 1    | PG 1  |
| W1-F40A   |  | 2    | PG 2  |
| W1-F40A   |  | 3    | PG 3  |
| W1-F40A   |  | 4    | PG 4  |
| W1-F40A   |  | 5    | PG 5  |
| W1-F40A   |  | 6    | PG 6  |
| W1-F40A   |  | 7    | PG 7  |
| W1-F40A   |  | 8    | PG 8  |
| W1-F40A   |  | 9    | PG 9  |
| W1-F40A   |  | 10   | PG 10 |
| W1-F40A   |  | 11   | PG 11 |
| W1-F40A   |  | 12   | PG 12 |
| W1-F40A   |  | 13   | PG 13 |
| W1-F40A   |  | 14   | PG 14 |
| W1-F40A   |  | 15   | PG 15 |
| W1-F40A   |  | 16   | PG 16 |
| W1-F40A   |  | 17   | PG 17 |
| W1-F40A   |  | 18   | PG 18 |
| W1-F40A   |  | 19   | PG 19 |
| W1-F40A   |  | 20   | PG 20 |
| W1-F40A   |  | 21   | PG 21 |
| W1-F40A   |  | 22   | PG 22 |
| W1-F40A   |  | 23   | PG 23 |
| W1-F40A   |  | 24   | PG 24 |
| W1-F40A   |  | 25   | PG 25 |
| W1-F40A   |  | 26   | PG 26 |
| W1-F40A   |  | 27   | PG 27 |
| W1-F40A   |  | 28   | PG 28 |
| W1-F40A   |  | 29   | PG 29 |
| W1-F40A   |  | 30   | PG 30 |
| W1-F40A   |  | 31   | PG 31 |
| W1-F40A   |  | 32   | PG 32 |

| CN502     |                   |      |       |
|-----------|-------------------|------|-------|
| FROM / TO |                   | A NO |       |
| W1-F15A   | W2-F15A W3-F15A,B | 1    | PG 1  |
| W1-F15A   | W2-F15A W3-F15A,B | 2    | PG 2  |
| W1-F15A   | W2-F15A W3-F15A,B | 3    | PG 3  |
| W1-F15A   | W2-F15A W3-F15A,B | 4    | PG 4  |
| W1-F15A   | W2-F15A W3-F15A,B | 5    | PG 5  |
| W1-F15A   | W2-F15A W3-F15A,B | 6    | PG 6  |
| W1-F15A   | W2-F15A W3-F15A,B | 7    | PG 7  |
| W1-F15A   | W2-F15A W3-F15A,B | 8    | PG 8  |
| W1-F15A   | W2-F15A W3-F15A,B | 9    | PG 9  |
| W1-F15A   | W2-F15A W3-F15A,B | 10   | PG 10 |
| W1-F15A   | W2-F15A W3-F15A,B | 11   | PG 11 |
| W1-F15A   | W2-F15A W3-F15A,B | 12   | PG 12 |
| W1-F15A   | W2-F15A W3-F15A,B | 13   | PG 13 |
| W1-F15A   | W2-F15A W3-F15A,B | 14   | PG 14 |
| W1-F15A   | W2-F15A W3-F15A,B | 15   | PG 15 |
| W1-F15A   | W2-F15A W3-F15A,B | 16   | PG 16 |
| W1-F15A   | W2-F15A W3-F15A,B | 17   | PG 17 |
| W1-F15A   | W2-F15A W3-F15A,B | 18   | PG 18 |
| W1-F15A   | W2-F15A W3-F15A,B | 19   | PG 19 |
| W1-F15A   | W2-F15A W3-F15A,B | 20   | PG 20 |
| W1-F15A   | W2-F15A W3-F15A,B | 21   | PG 21 |
| W1-F15A   | W2-F15A W3-F15A,B | 22   | PG 22 |
| W1-F15A   | W2-F15A W3-F15A,B | 23   | PG 23 |
| W1-F15A   | W2-F15A W3-F15A,B | 24   | PG 24 |
| W1-F15A   | W2-F15A W3-F15A,B | 25   | PG 25 |
| W1-F15A   | W2-F15A W3-F15A,B | 26   | PG 26 |
| W1-F15A   | W2-F15A W3-F15A,B | 27   | PG 27 |
| W1-F15A   | W2-F15A W3-F15A,B | 28   | PG 28 |
| W1-F15A   | W2-F15A W3-F15A,B | 29   | PG 29 |
| W1-F15A   | W2-F15A W3-F15A,B | 30   | PG 30 |
| W1-F15A   | W2-F15A W3-F15A,B | 31   | PG 31 |
| W1-F15A   | W2-F15A W3-F15A,B | 32   | PG 32 |



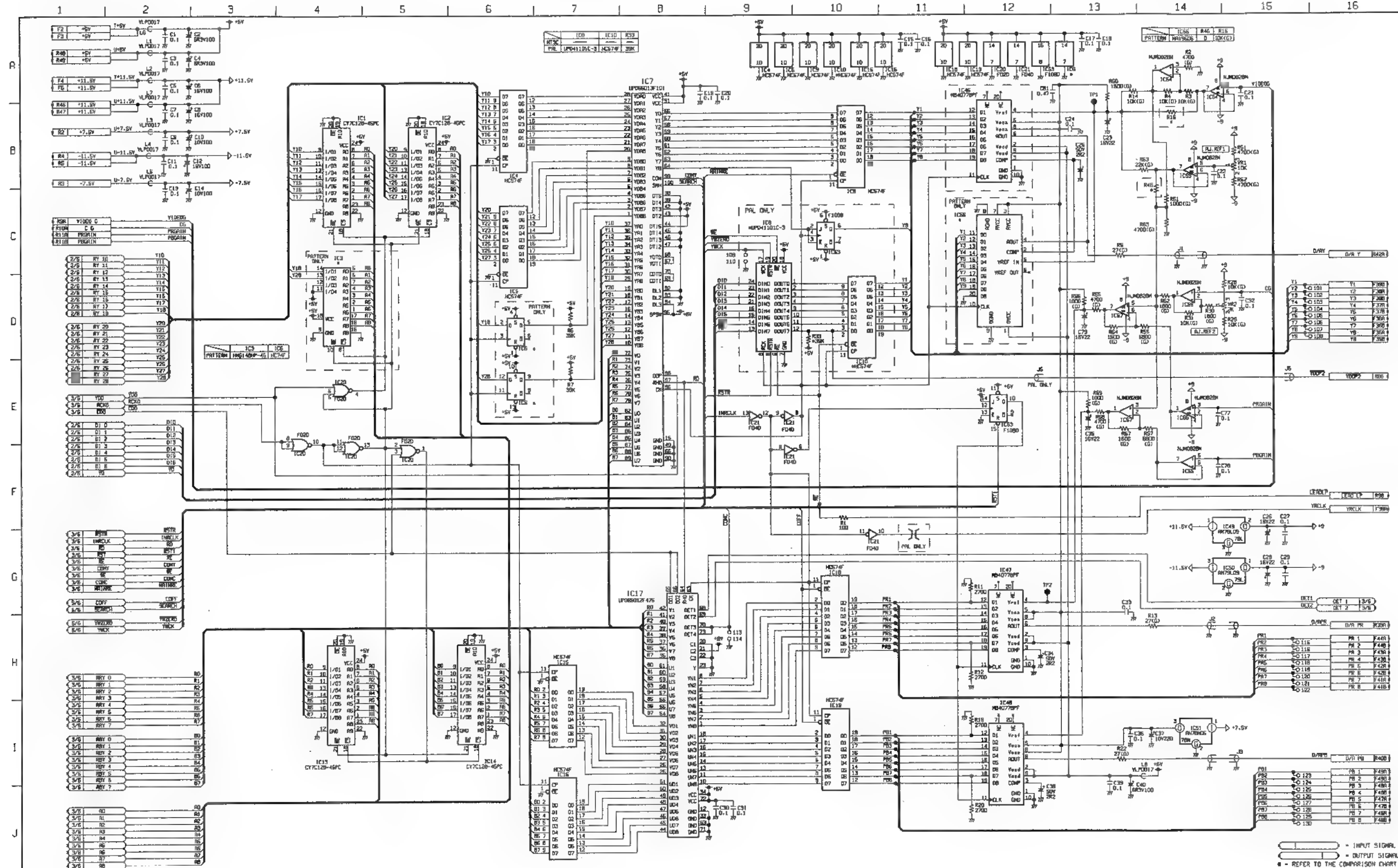




TBC & SYNC GEN  
SCHEMATIC DIAGRAM

| MODEL | AU-665         | AU-65     | AU-63     | AU-62     |
|-------|----------------|-----------|-----------|-----------|
| TYPE  | See Page 5-2-9 | VEP88062A | VEP88062A | VEP88062A |
| NTSC  | See Page 5-2-9 | VEP88062C | VEP88062C | VEP88062C |
| PAL   | See Page 5-2-9 | VEP88062C | VEP88062C | VEP88062C |

W1 (TBC & SYNC GEN) SCHEMATIC DIAGRAM 1/6 [FOR AU-65, AU-63, AU-62]

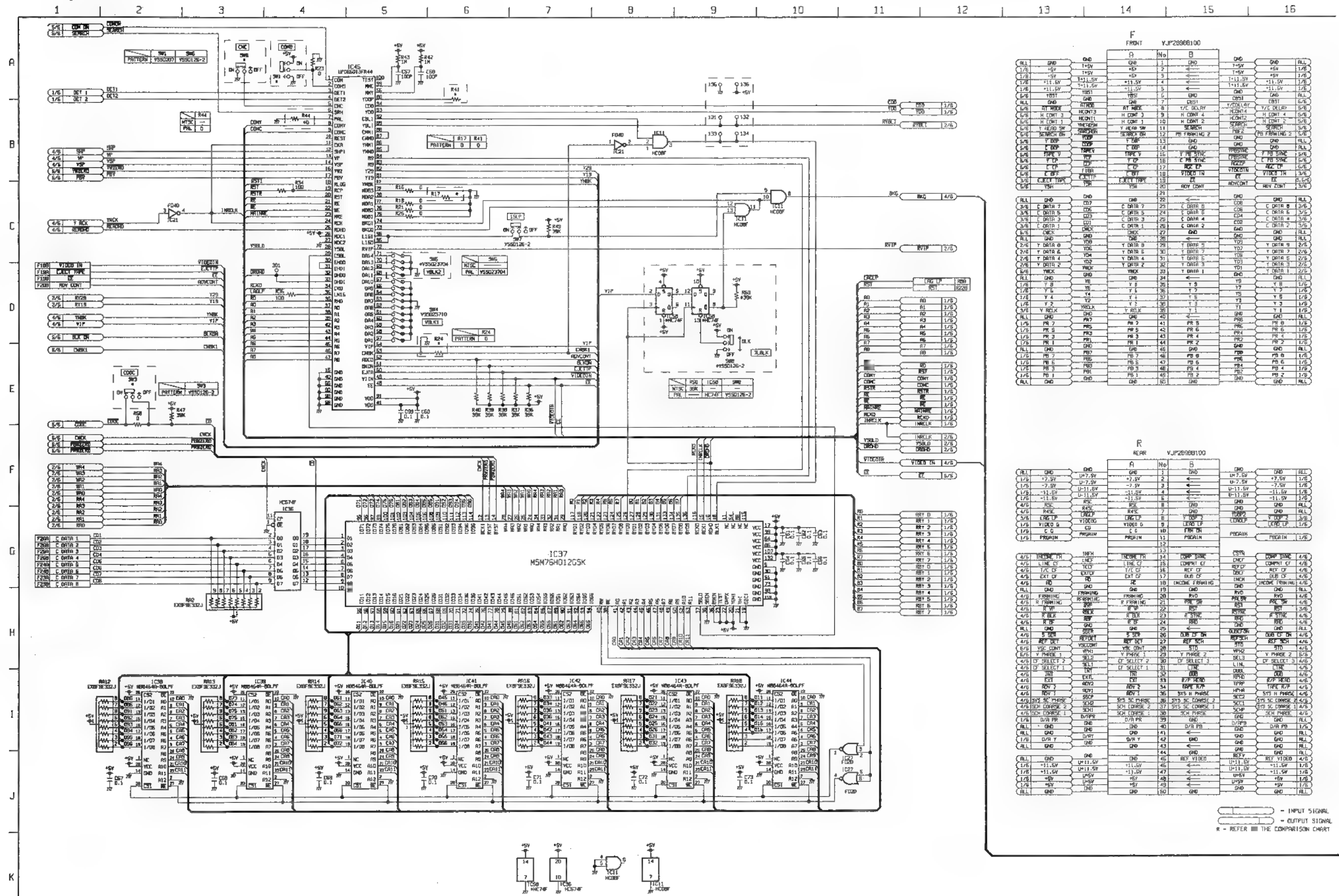


REVERSE SIDE W. MOTHER  
SCHEMATIC DIAGRAM



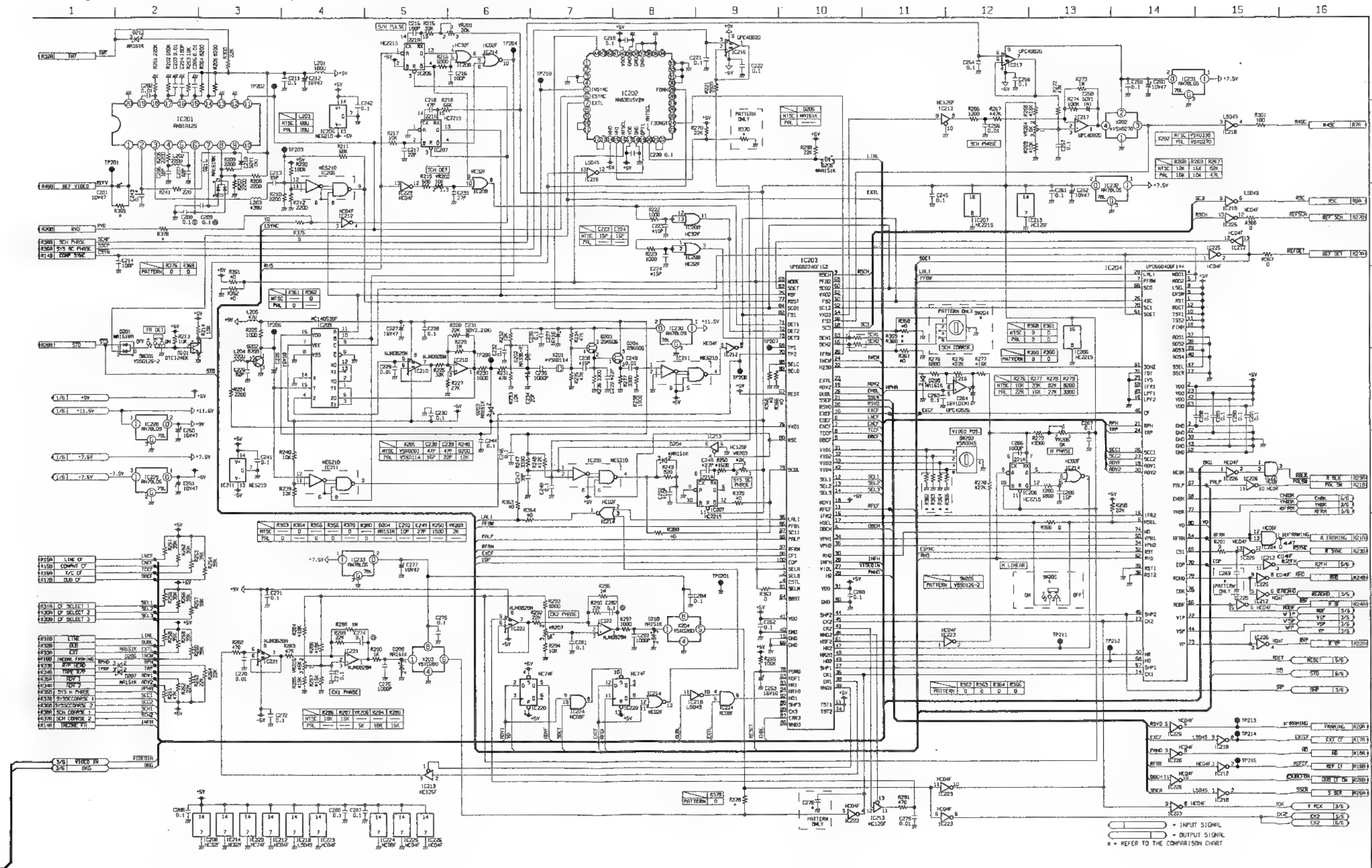
# W1 (TBC & SYNC GEN) SCHEMATIC DIAGRAM 3/6 [FOR AU-65, AU-63, AU-62]

| MODEL | AU-665         | AU-65     | AU-63     | AU-62     |
|-------|----------------|-----------|-----------|-----------|
| TYPE  | See Page 5-2-9 | VEP88062A | VEP88062A | VEP88062A |
| NTSC  |                | VEP88062C | VEP88062C | VEP88062C |
| PAL   |                |           |           |           |





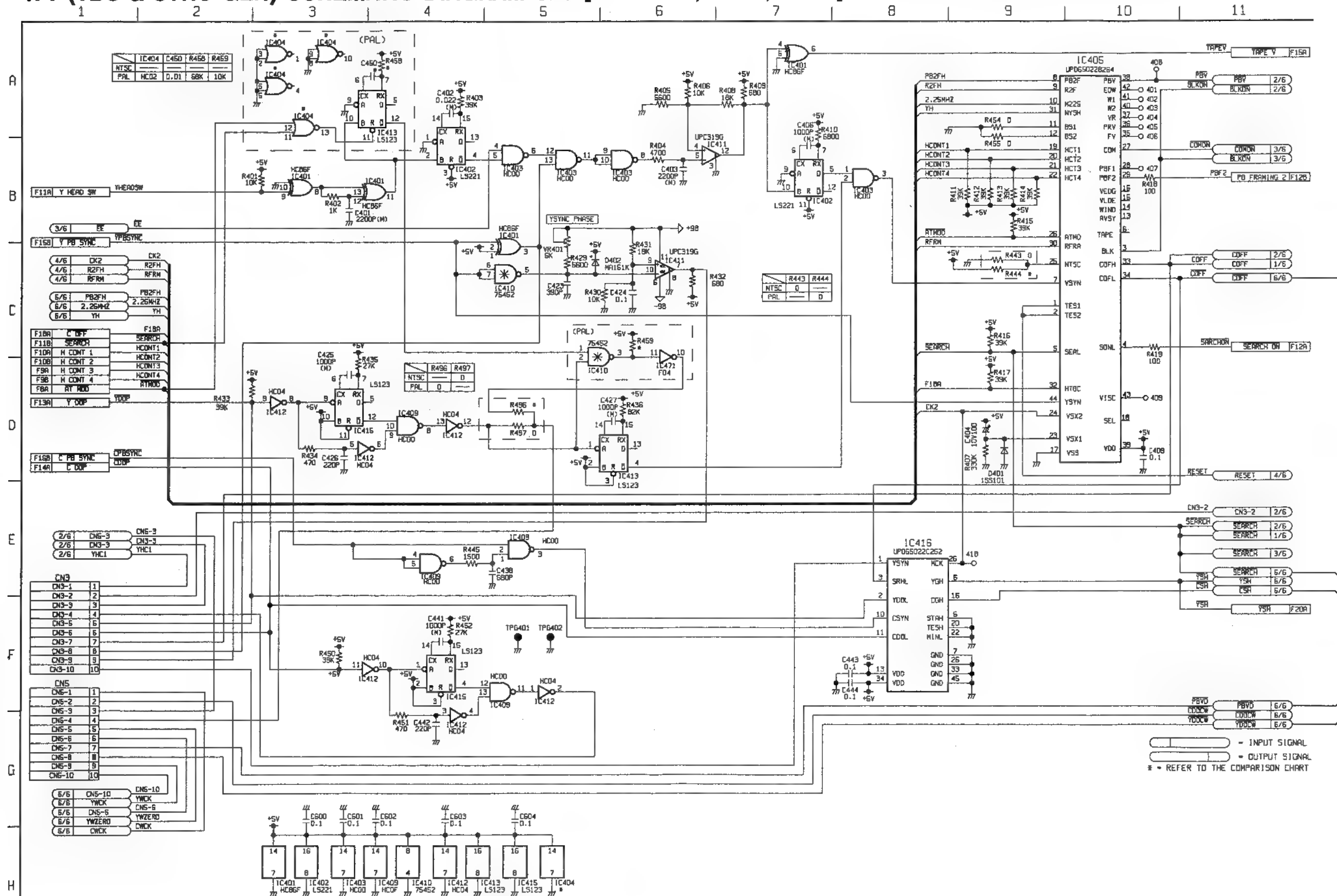
# W1 (TBC & SYNC GEN) SCHEMATIC DIAGRAM 4/6 [FOR AU-65, AU-63, AU-62]



### TBC & SYNC GEN SCHEMATIC DIAGRAM

| MODEL<br>TYPE | AU-665         | AU-65     | AU-63     | AU-62     |
|---------------|----------------|-----------|-----------|-----------|
| NTSC          | See Page 5-2-9 | VEP88062A | VEP88062A | VEP88062A |
| PAL           |                | VEP88062C | VEP88062C | VEP88062C |

**W1 (TBC & SYNC GEN) SCHEMATIC DIAGRAM 5/6 [FOR AU-65, AU-63, AU-62]**



**REVERSE SIDE: TBC & SYNC GEN SCHEMATIC DIAGRAM**



### W1 SUB SCHEMATIC DIAGRAM [FOR AU-665 NTSC]

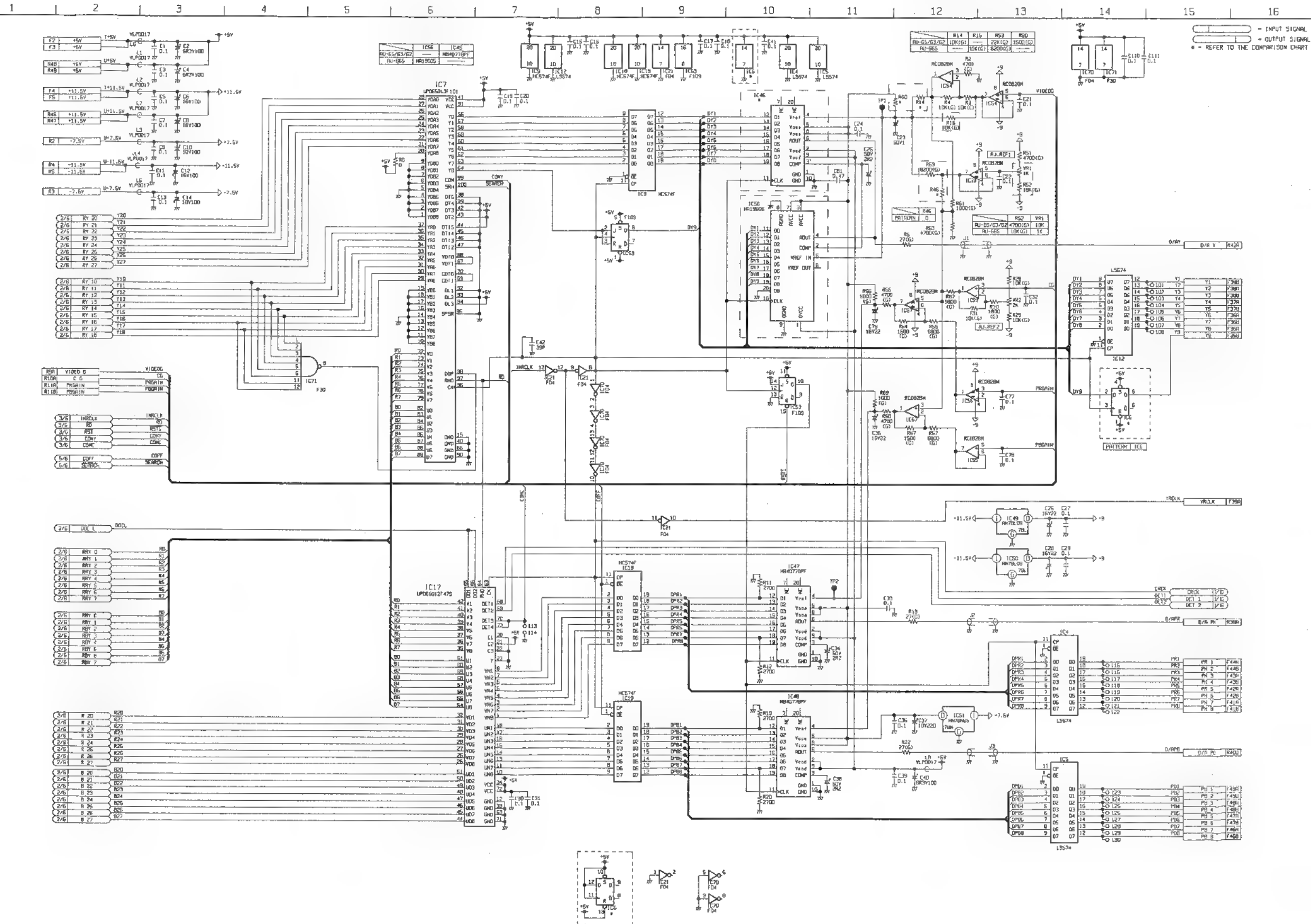




# W1 (TBC & SYNC GEN) SCHEMATIC DIAGRAM 1/6 [FOR AU-665 NTSC]

| MODEL | AU-665    | AU-65 | AU-63 | AU-62 |
|-------|-----------|-------|-------|-------|
| TYPE  | VEP88077A |       |       |       |
| PAL   |           |       |       |       |

See Pages 5-2-6~5-2-8

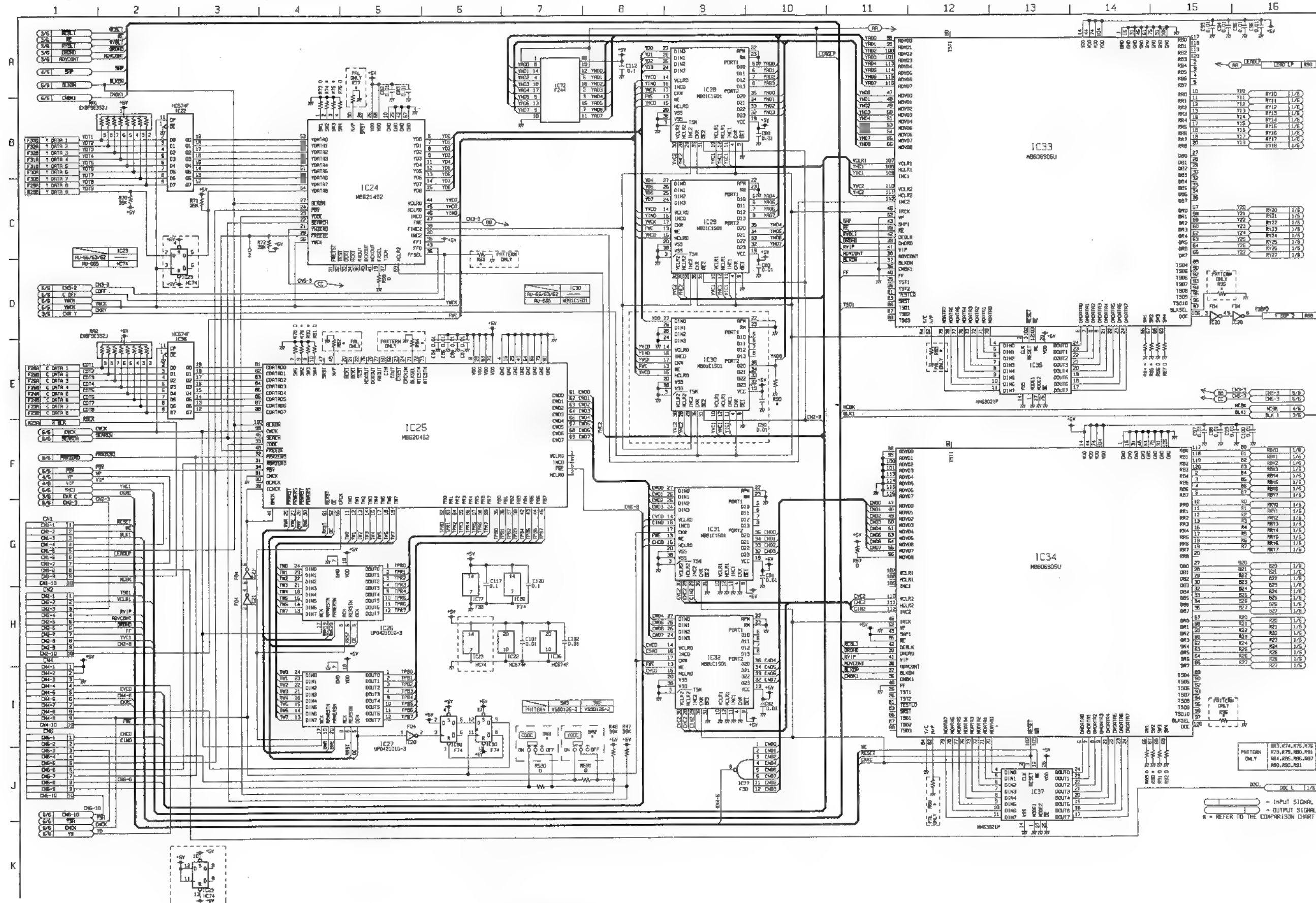


TBC & SYNC GEN  
SCHEMATIC DIAGRAM

| MODEL | AU-665    | AU-65 | AU-63 | AU-62 |
|-------|-----------|-------|-------|-------|
| TYPE  | VEP88077A |       |       |       |
| NTSC  |           |       |       |       |
| PAL   |           |       |       |       |

See Pages 5-2-6~5-2-8

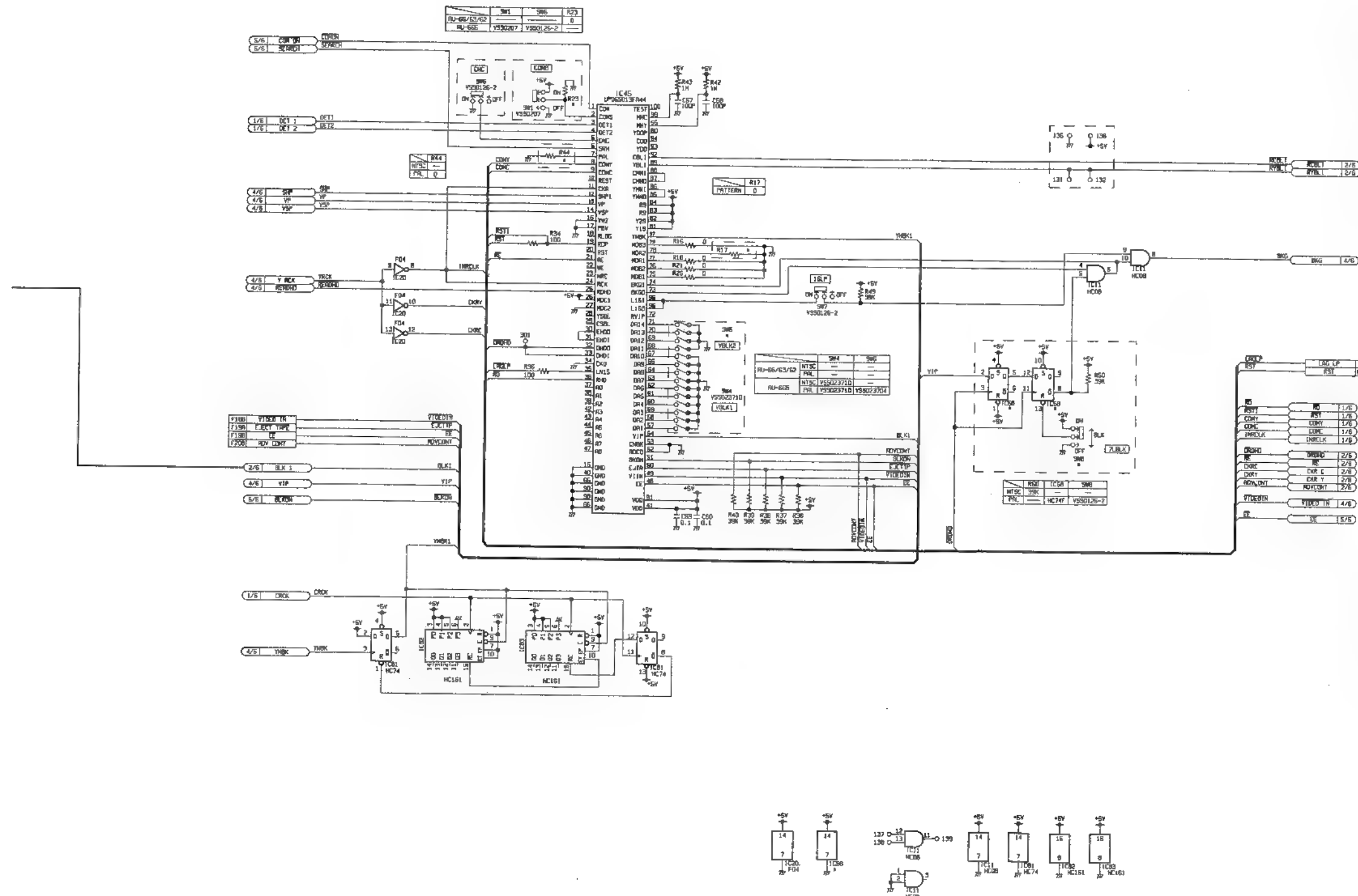
W1 (TBC & SYNC GEN) SCHEMATIC DIAGRAM 2/6 [FOR AU-665 NTSC]



REVERSE SIDE TBC & SYNC GEN  
SCHEMATIC DIAGRAM

# W1 (TBC & SYNC GEN) SCHEMATIC DIAGRAM 3/6 [FOR AU-665 NTSC]

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



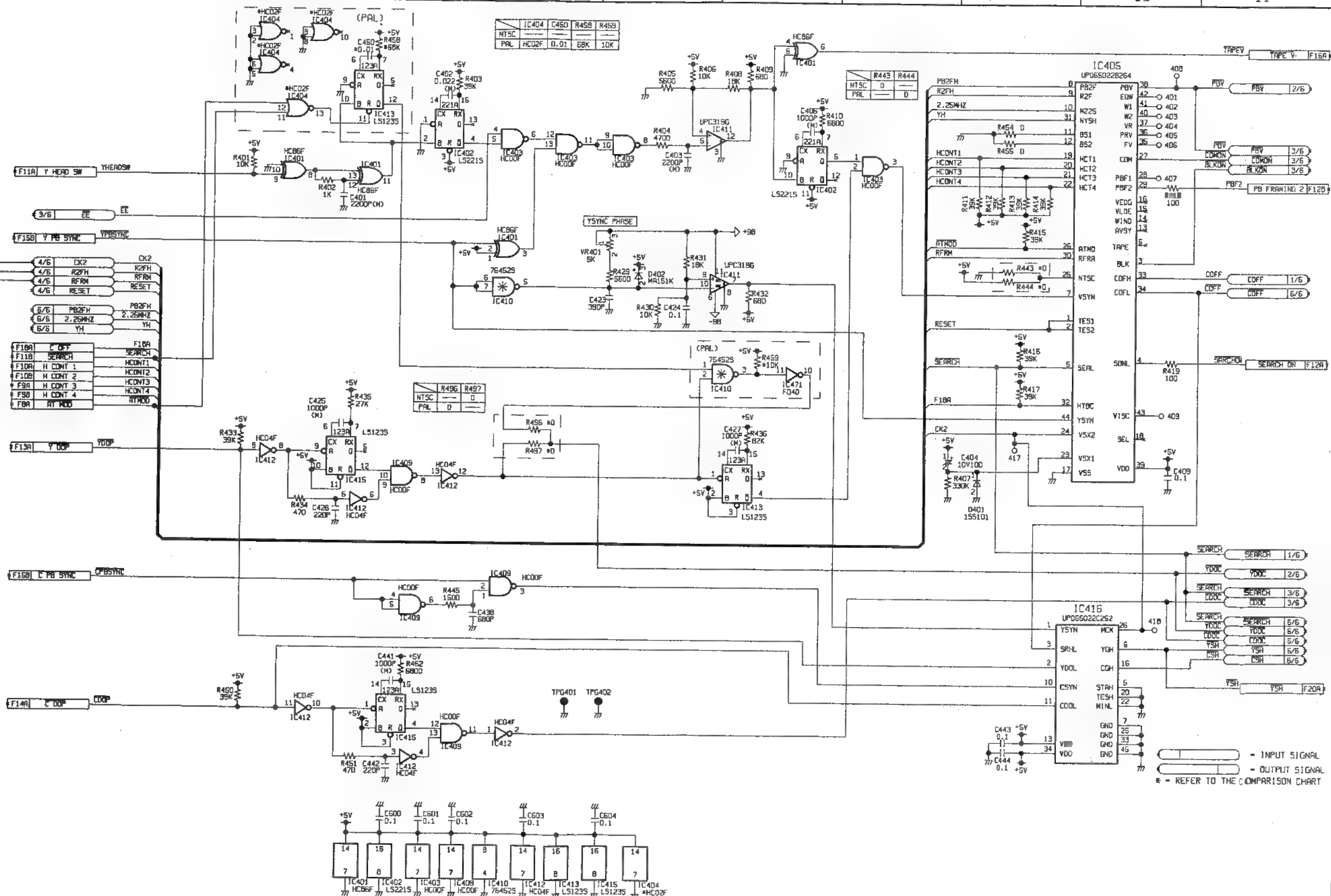
| W1F FRONT |     | V.JP28980.00 |     |
|-----------|-----|--------------|-----|
| No.       | Pin | No.          | Pin |
| 1/1       | 1   | 1/1          | 1   |
| 1/2       | 2   | 1/2          | 2   |
| 1/3       | 3   | 1/3          | 3   |
| 1/4       | 4   | 1/4          | 4   |
| 1/5       | 5   | 1/5          | 5   |
| 1/6       | 6   | 1/6          | 6   |
| 1/7       | 7   | 1/7          | 7   |
| 1/8       | 8   | 1/8          | 8   |
| 1/9       | 9   | 1/9          | 9   |
| 1/10      | 10  | 1/10         | 10  |
| 1/11      | 11  | 1/11         | 11  |
| 1/12      | 12  | 1/12         | 12  |
| 1/13      | 13  | 1/13         | 13  |
| 1/14      | 14  | 1/14         | 14  |
| 1/15      | 15  | 1/15         | 15  |
| 1/16      | 16  | 1/16         | 16  |
| 1/17      | 17  | 1/17         | 17  |
| 1/18      | 18  | 1/18         | 18  |
| 1/19      | 19  | 1/19         | 19  |
| 1/20      | 20  | 1/20         | 20  |
| 1/21      | 21  | 1/21         | 21  |
| 1/22      | 22  | 1/22         | 22  |
| 1/23      | 23  | 1/23         | 23  |
| 1/24      | 24  | 1/24         | 24  |
| 1/25      | 25  | 1/25         | 25  |
| 1/26      | 26  | 1/26         | 26  |
| 1/27      | 27  | 1/27         | 27  |
| 1/28      | 28  | 1/28         | 28  |
| 1/29      | 29  | 1/29         | 29  |
| 1/30      | 30  | 1/30         | 30  |
| 1/31      | 31  | 1/31         | 31  |
| 1/32      | 32  | 1/32         | 32  |
| 1/33      | 33  | 1/33         | 33  |
| 1/34      | 34  | 1/34         | 34  |
| 1/35      | 35  | 1/35         | 35  |
| 1/36      | 36  | 1/36         | 36  |
| 1/37      | 37  | 1/37         | 37  |
| 1/38      | 38  | 1/38         | 38  |
| 1/39      | 39  | 1/39         | 39  |
| 1/40      | 40  | 1/40         | 40  |
| 1/41      | 41  | 1/41         | 41  |
| 1/42      | 42  | 1/42         | 42  |
| 1/43      | 43  | 1/43         | 43  |
| 1/44      | 44  | 1/44         | 44  |
| 1/45      | 45  | 1/45         | 45  |
| 1/46      | 46  | 1/46         | 46  |
| 1/47      | 47  | 1/47         | 47  |
| 1/48      | 48  | 1/48         | 48  |
| 1/49      | 49  | 1/49         | 49  |
| 1/50      | 50  | 1/50         | 50  |

| W1R REAR |     | V.JP28980.00 |     |
|----------|-----|--------------|-----|
| No.      | Pin | No.          | Pin |
| 1/1      | 1   | 1/1          | 1   |
| 1/2      | 2   | 1/2          | 2   |
| 1/3      | 3   | 1/3          | 3   |
| 1/4      | 4   | 1/4          | 4   |
| 1/5      | 5   | 1/5          | 5   |
| 1/6      | 6   | 1/6          | 6   |
| 1/7      | 7   | 1/7          | 7   |
| 1/8      | 8   | 1/8          | 8   |
| 1/9      | 9   | 1/9          | 9   |
| 1/10     | 10  | 1/10         | 10  |
| 1/11     | 11  | 1/11         | 11  |
| 1/12     | 12  | 1/12         | 12  |
| 1/13     | 13  | 1/13         | 13  |
| 1/14     | 14  | 1/14         | 14  |
| 1/15     | 15  | 1/15         | 15  |
| 1/16     | 16  | 1/16         | 16  |
| 1/17     | 17  | 1/17         | 17  |
| 1/18     | 18  | 1/18         | 18  |
| 1/19     | 19  | 1/19         | 19  |
| 1/20     | 20  | 1/20         | 20  |
| 1/21     | 21  | 1/21         | 21  |
| 1/22     | 22  | 1/22         | 22  |
| 1/23     | 23  | 1/23         | 23  |
| 1/24     | 24  | 1/24         | 24  |
| 1/25     | 25  | 1/25         | 25  |
| 1/26     | 26  | 1/26         | 26  |
| 1/27     | 27  | 1/27         | 27  |
| 1/28     | 28  | 1/28         | 28  |
| 1/29     | 29  | 1/29         | 29  |
| 1/30     | 30  | 1/30         | 30  |
| 1/31     | 31  | 1/31         | 31  |
| 1/32     | 32  | 1/32         | 32  |
| 1/33     | 33  | 1/33         | 33  |
| 1/34     | 34  | 1/34         | 34  |
| 1/35     | 35  | 1/35         | 35  |
| 1/36     | 36  | 1/36         | 36  |
| 1/37     | 37  | 1/37         | 37  |
| 1/38     | 38  | 1/38         | 38  |
| 1/39     | 39  | 1/39         | 39  |
| 1/40     | 40  | 1/40         | 40  |
| 1/41     | 41  | 1/41         | 41  |
| 1/42     | 42  | 1/42         | 42  |
| 1/43     | 43  | 1/43         | 43  |
| 1/44     | 44  | 1/44         | 44  |
| 1/45     | 45  | 1/45         | 45  |
| 1/46     | 46  | 1/46         | 46  |
| 1/47     | 47  | 1/47         | 47  |
| 1/48     | 48  | 1/48         | 48  |
| 1/49     | 49  | 1/49         | 49  |
| 1/50     | 50  | 1/50         | 50  |

• INPUT SIGNAL  
• OUTPUT SIGNAL  
• REFER TO THE CONNECTION CHART



# W1 (TBC & SYNC GEN) SCHEMATIC DIAGRAM 5/6 [FOR AU-665 NTSC]



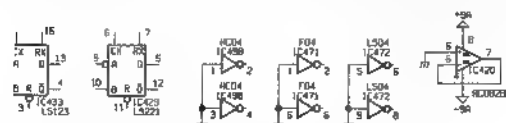
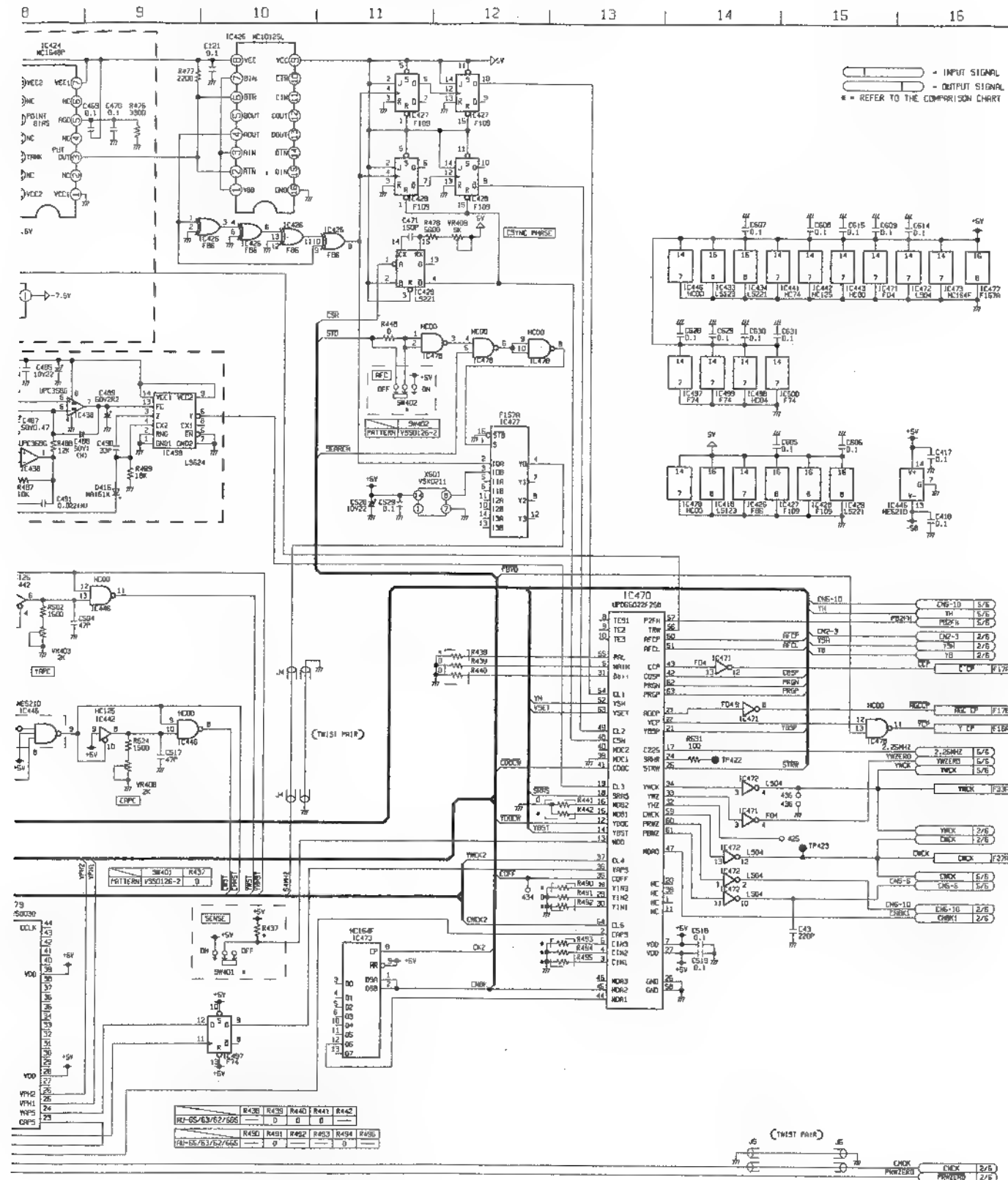




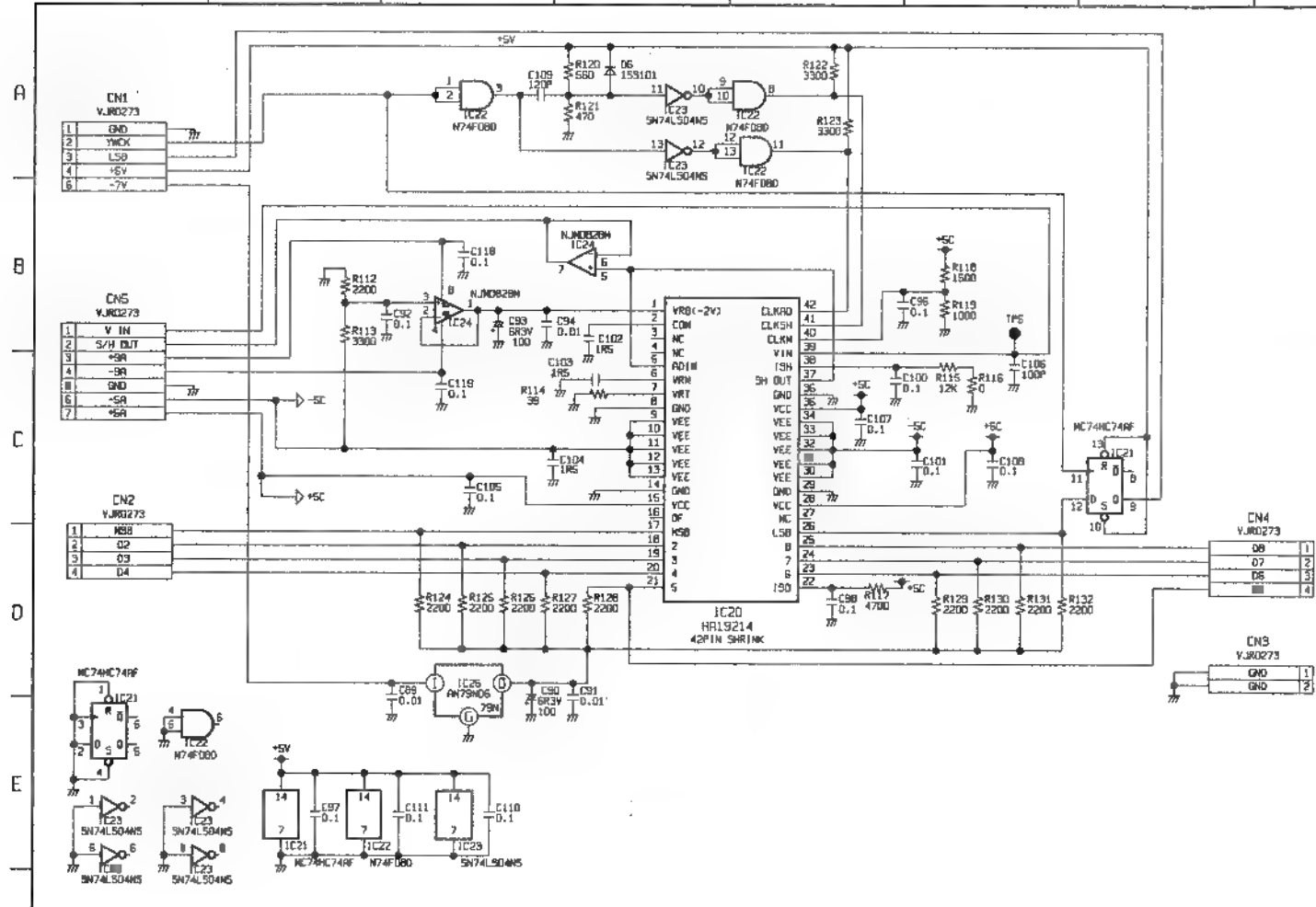
# [ AU-665 NTSC]

| MODEL | AU-665    | AU-65 | AU-63 | AU-62 |
|-------|-----------|-------|-------|-------|
| TYPE  | VEP88077A |       |       |       |
| NTSC  |           |       |       |       |
| PAL   |           |       |       |       |

See Pages 5-2-6~5-2-8

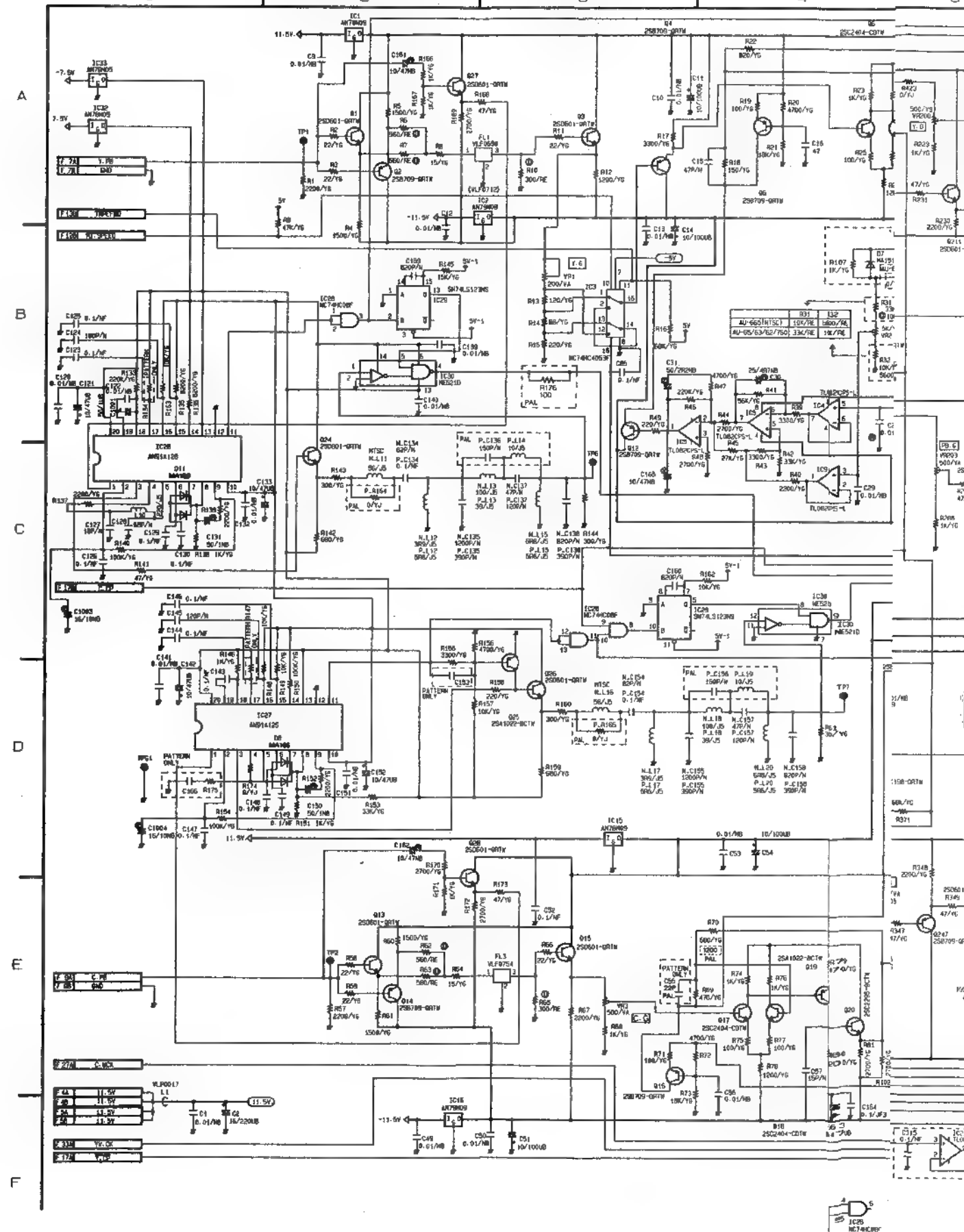


| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
|---|---|---|---|---|---|---|



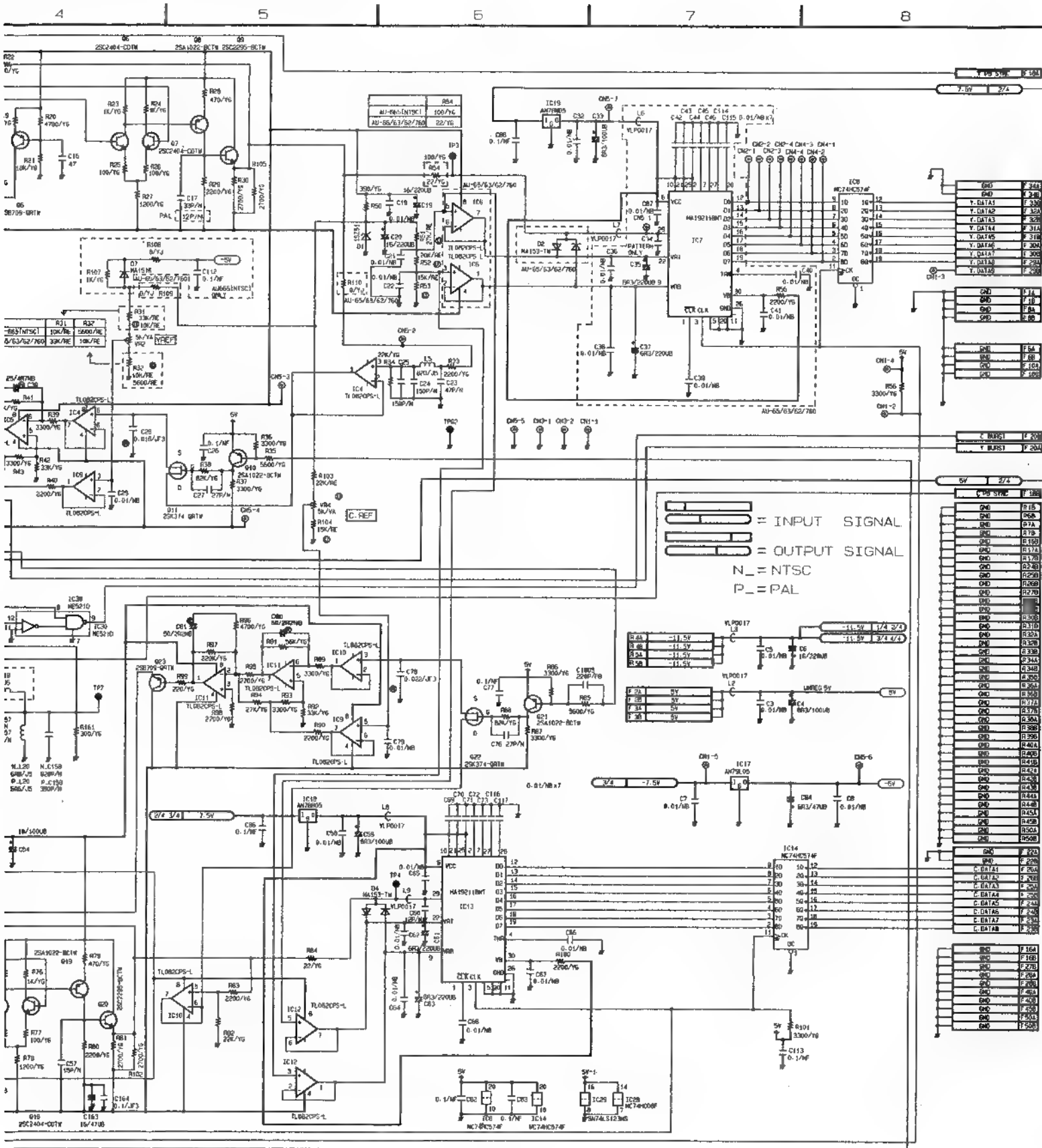
| MODEL<br>TYPE | AU-665    | AU-65    | AU-63    | AU-62    |
|---------------|-----------|----------|----------|----------|
| NTSC          | VEP80569A | Not Used | Not Used | Not Used |
| PAL           | Not Used  | Not Used | Not Used | Not Used |

| 1 | 2 | 3 |
|---|---|---|
|---|---|---|

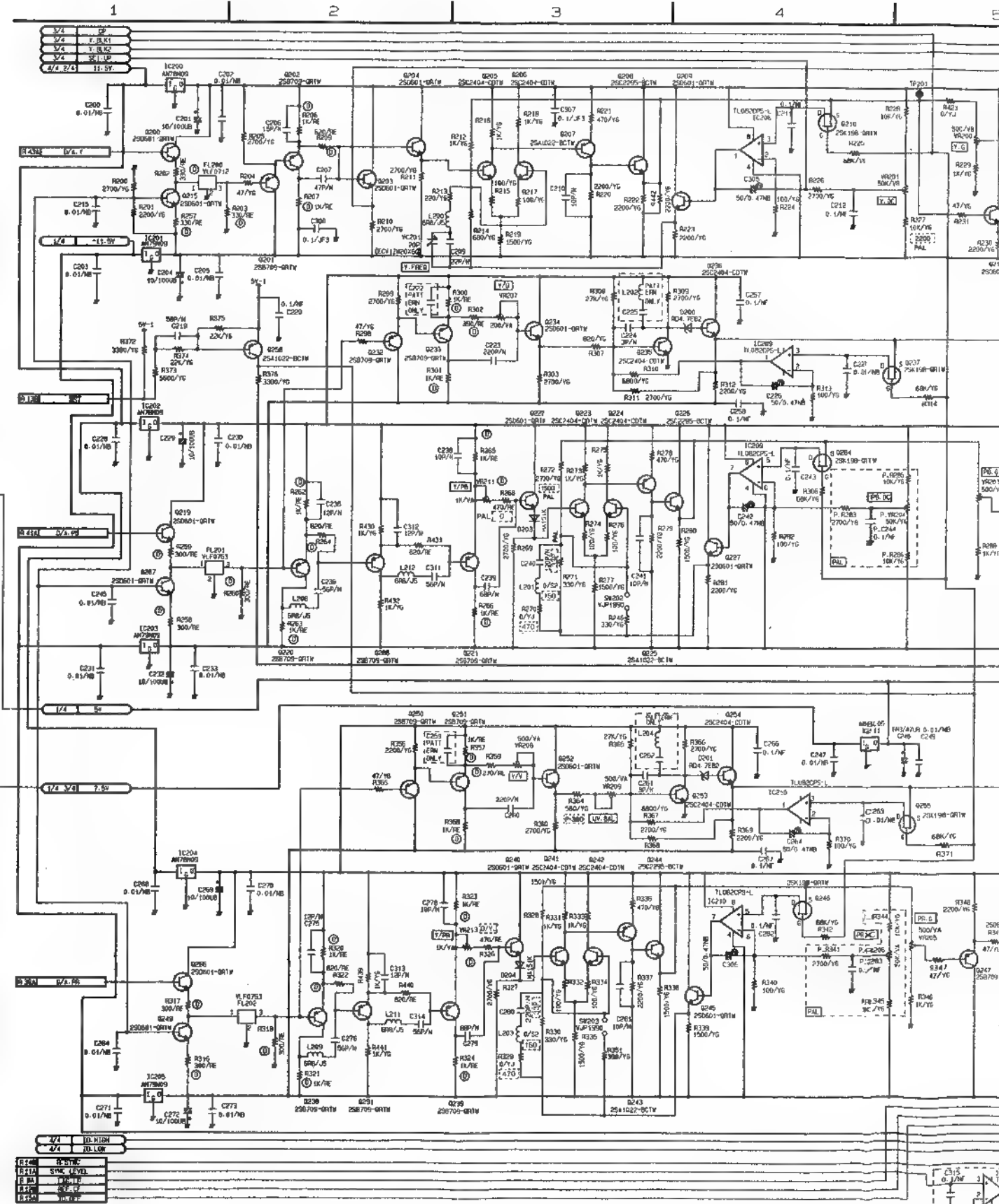




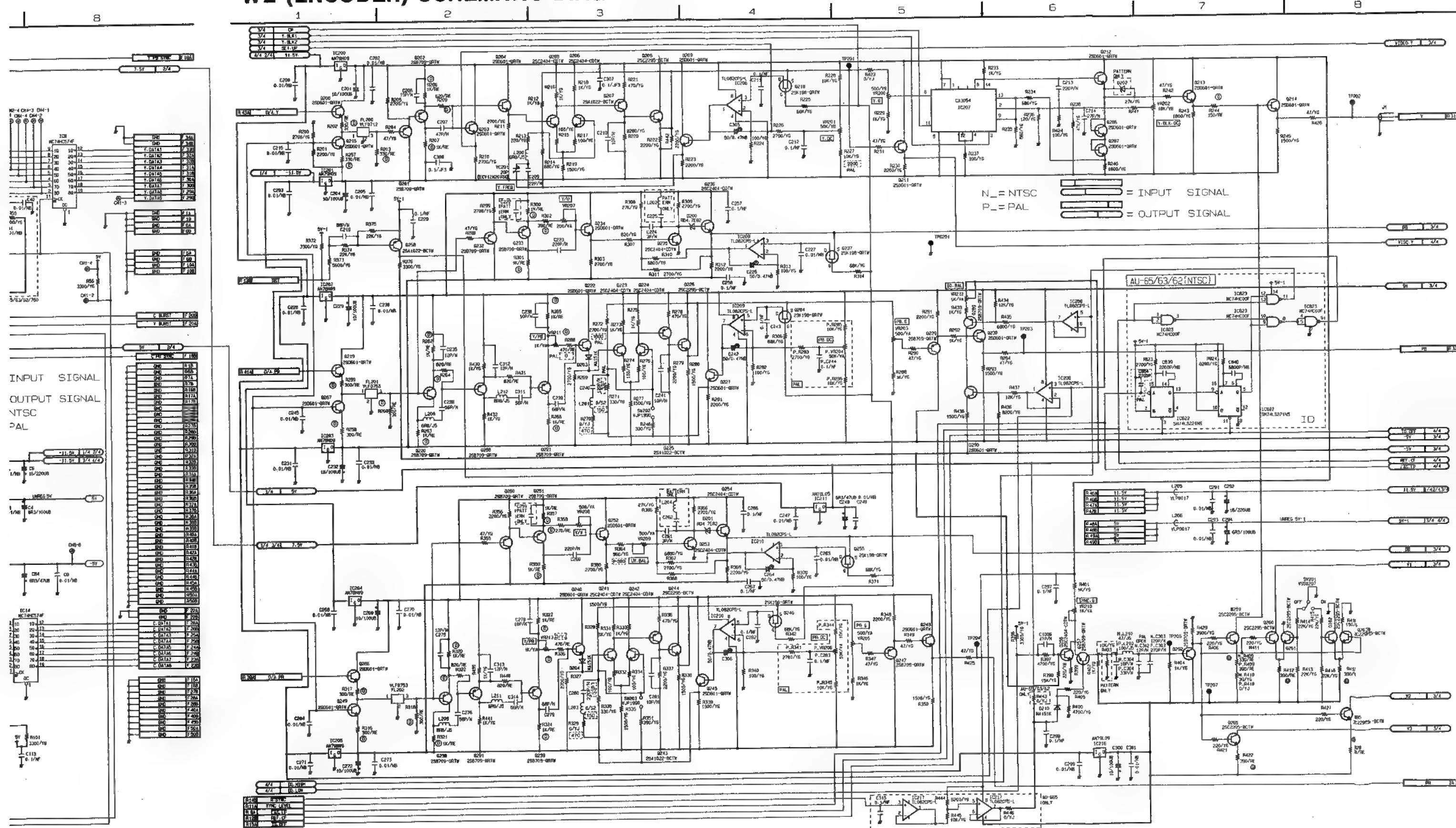
| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP88063B | VEP88063A | VEP88063A | VEP88063A |
| NTSC  | VEP88063B | VEP88063A | VEP88063A | VEP88063A |
| PAL   | VEP88063E | VEP88063C | VEP88063C | VEP88063C |



## W2 (ENCODER) SCHEMATIC DIAGRAM 2/4

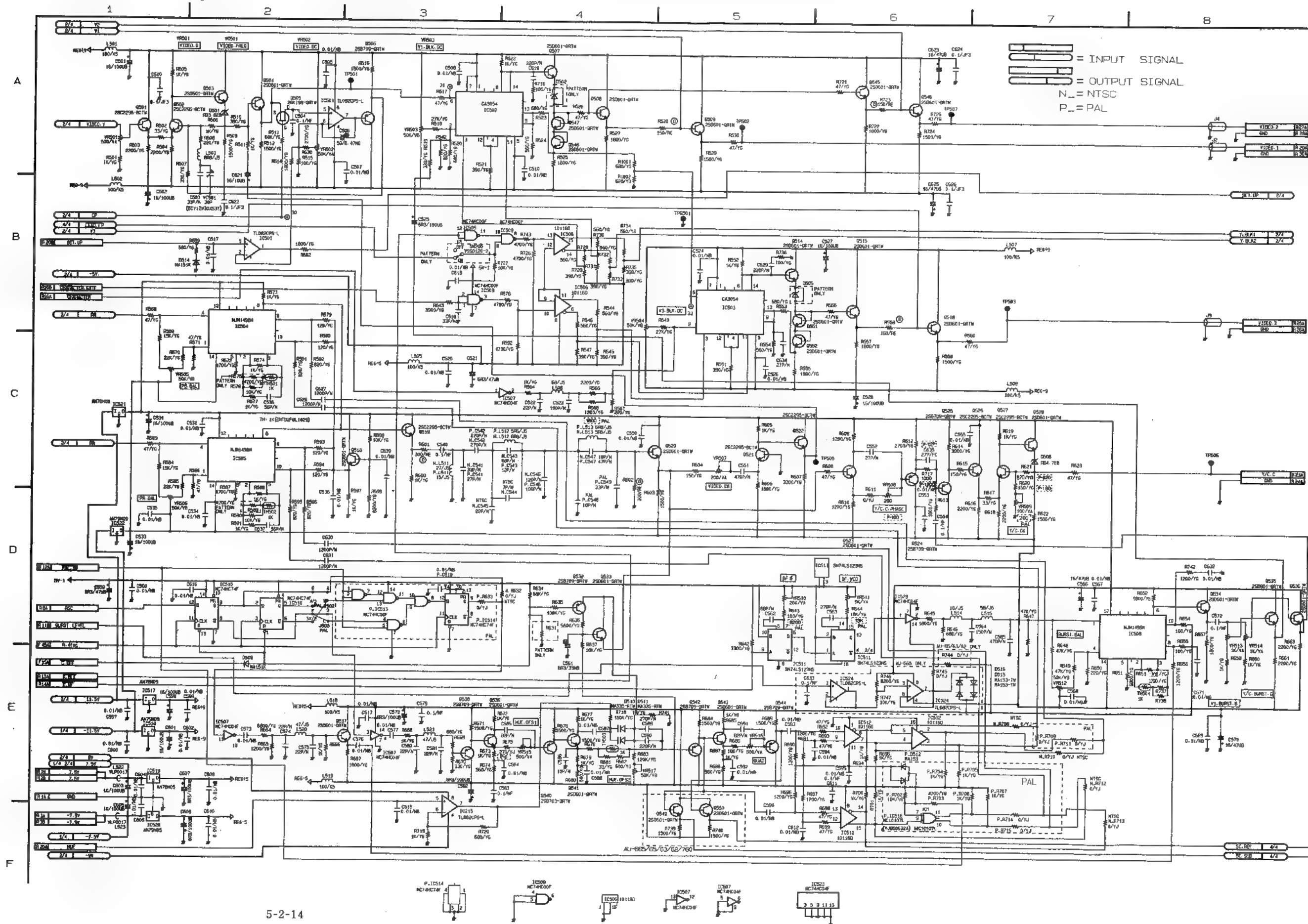


# W2 (ENCODER) SCHEMATIC DIAGRAM 2/4

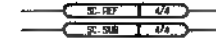


## W2 (ENCODER) SCHEMATIC DIAGRAM 3/4

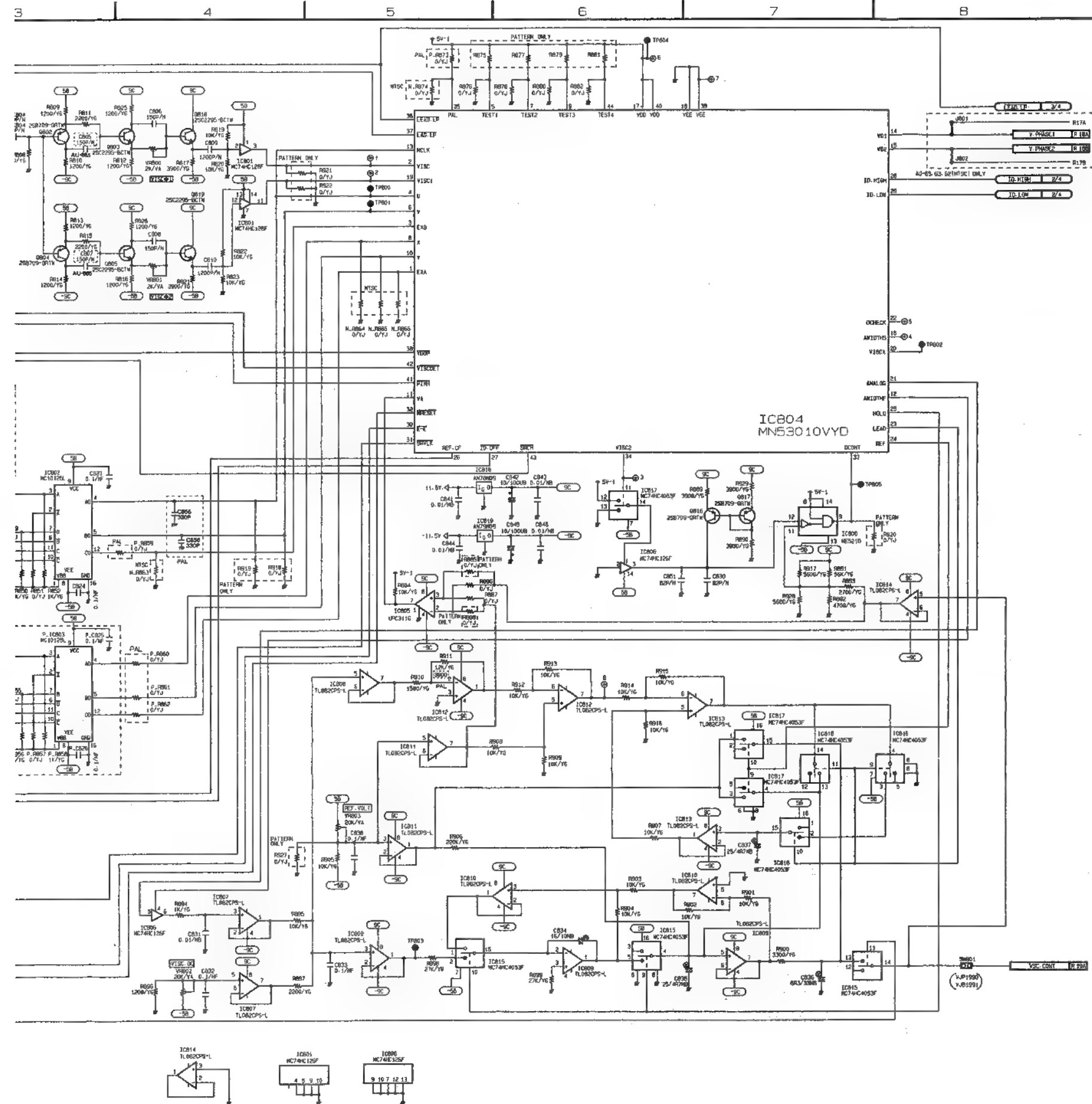
| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP88063B | VEP88063A | VEP88063A | VEP88063A |
| PAL           | VEP88063E | VEP88063C | VEP88063C | VEP88063C |



A horizontal timeline with 8 segments labeled 1 through 8. Segment 1 is highlighted in light blue.



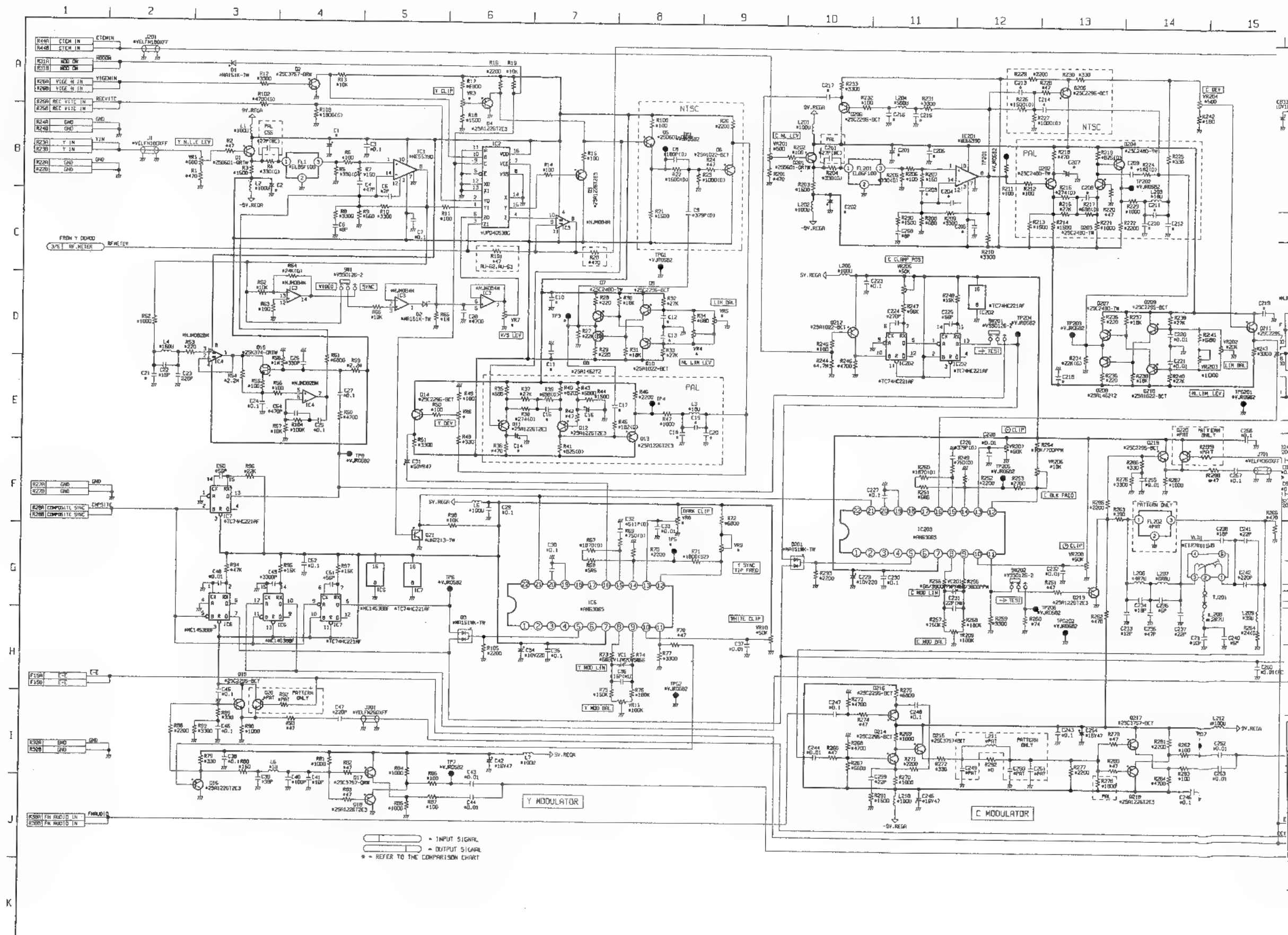
# RAM 4/4[FOR AU-665]



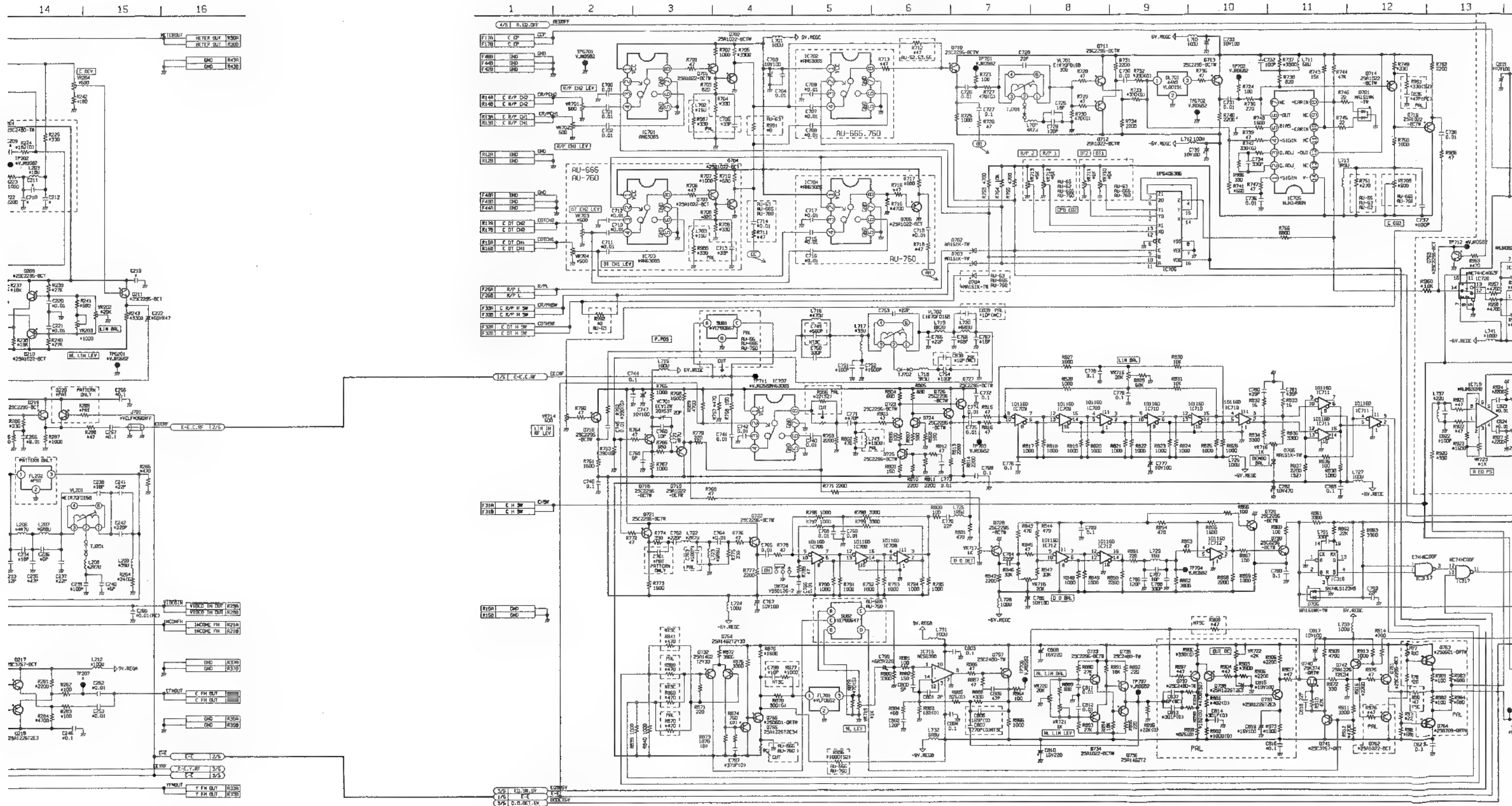


### W3 (MODULATION & DEMODULATION) SCHEMATIC DIAGRAM 1/5

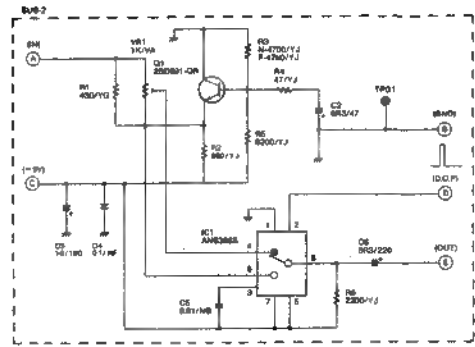
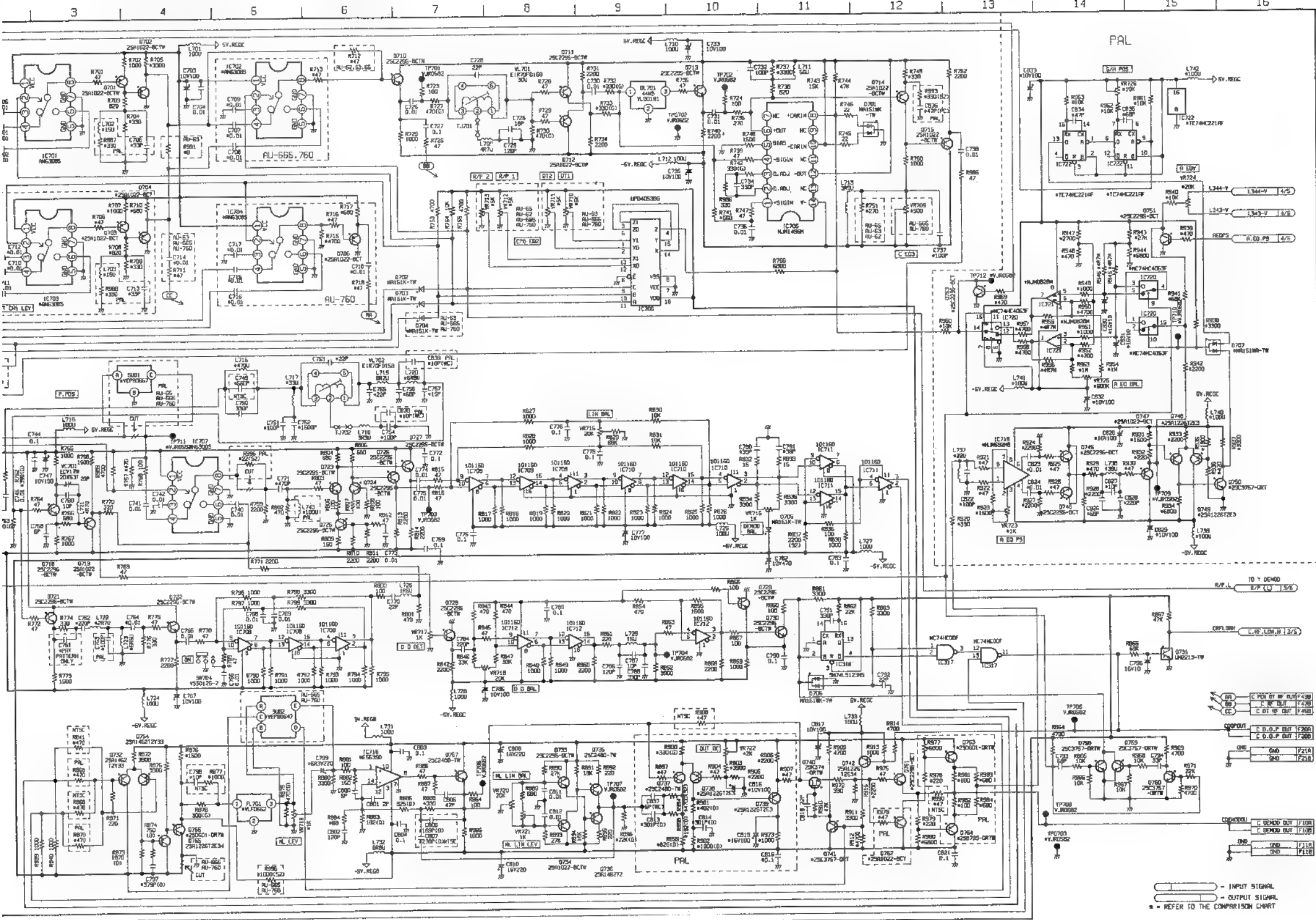
| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP83098B | VEP83098A | VEP83098D | VEP83098C |
| PAL           | VEP83098H | VEP83098E | VEP83098F | VEP83098G |



# W3 (MODULATION & DEMODULATION) SCHEMATIC DIAGRAM 2/5



ATION & DEMODULATION) SCHEMATIC DIAGRAM 2/5

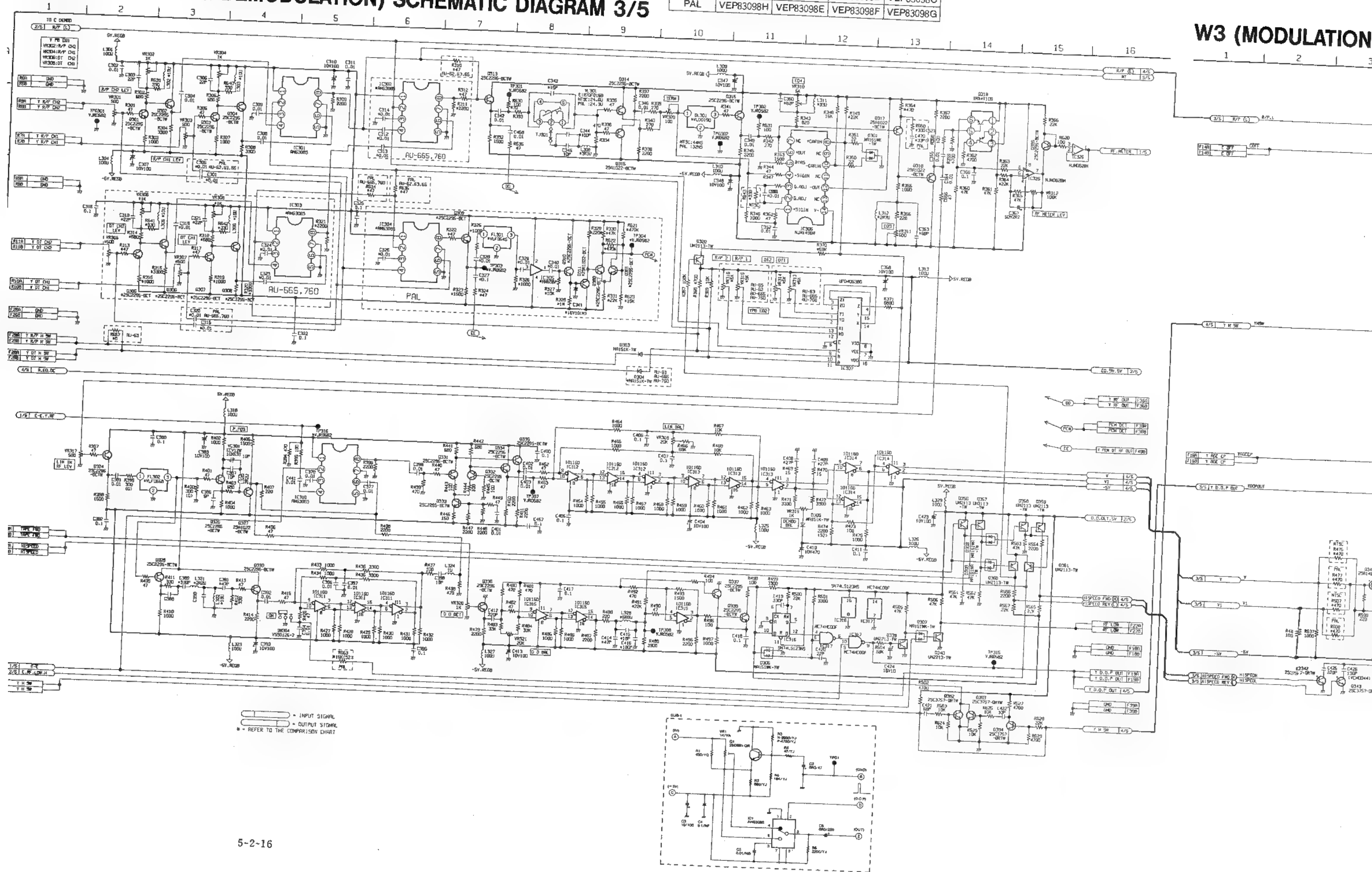




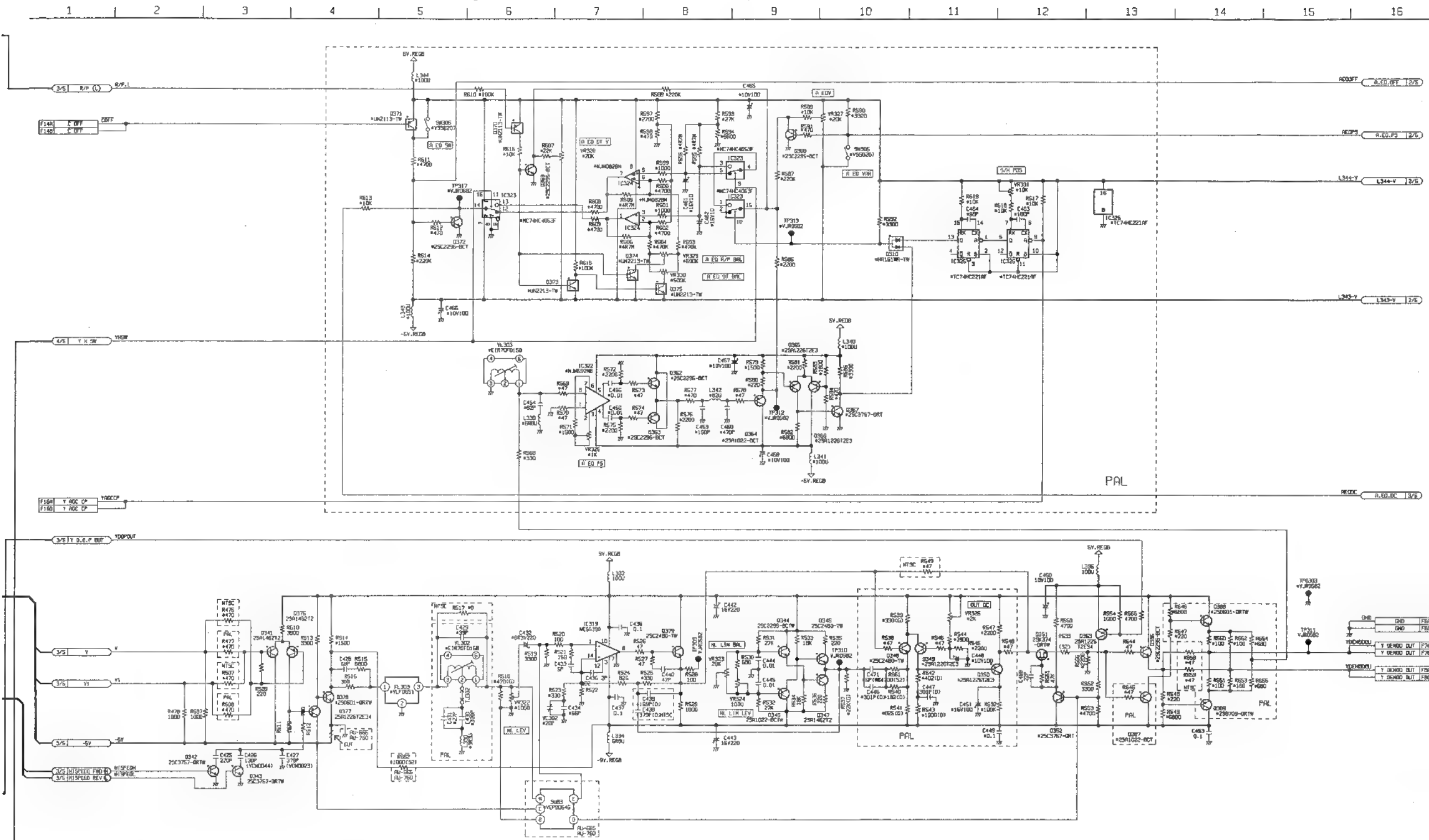
# W3 (MODULATION & DEMODULATION) SCHEMATIC DIAGRAM 3/5

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP83098B | VEP83098A | VEP83098D | VEP83098C |
| NTSC  | VEP83098B | VEP83098A | VEP83098D | VEP83098C |
| PAL   | VEP83098H | VEP83098E | VEP83098F | VEP83098G |

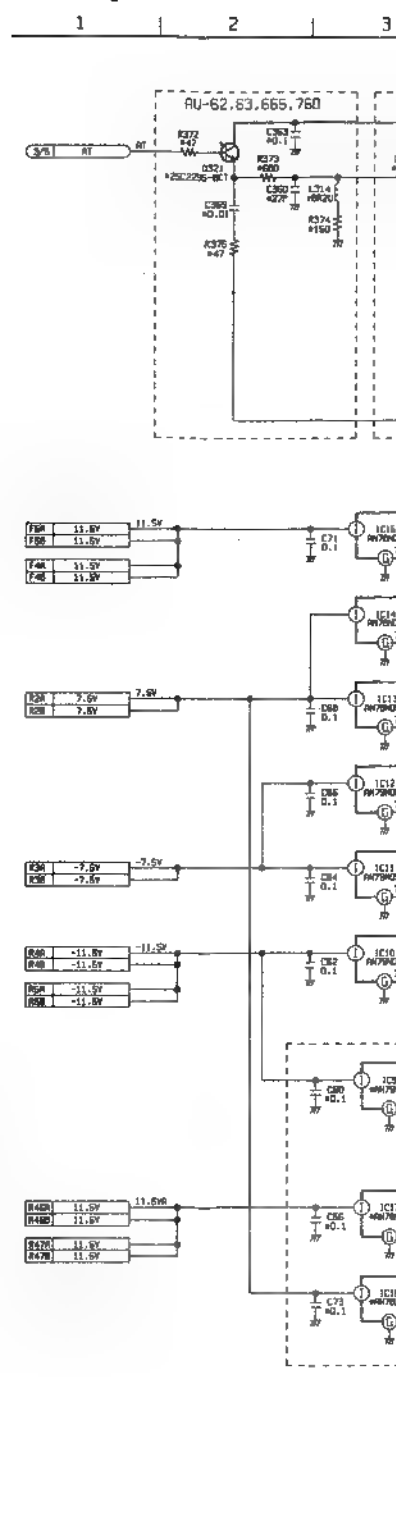
## W3 (MODULATION



# W3 (MODULATION & DEMODULATION) SCHEMATIC DIAGRAM 4/5

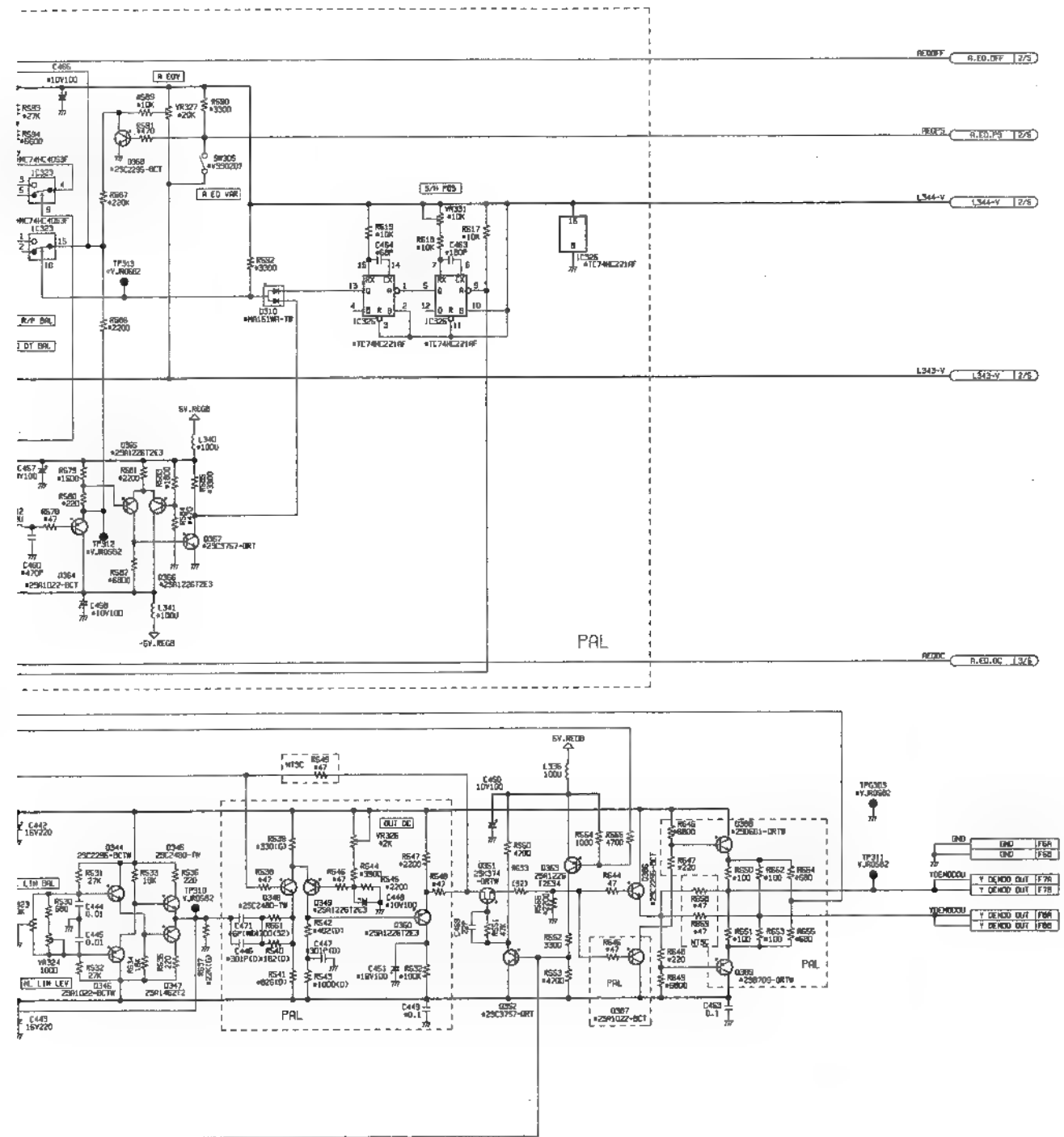


# W3 (MODULATION & DEMODULATION) SCHEMATIC DIAGRAM 5/5



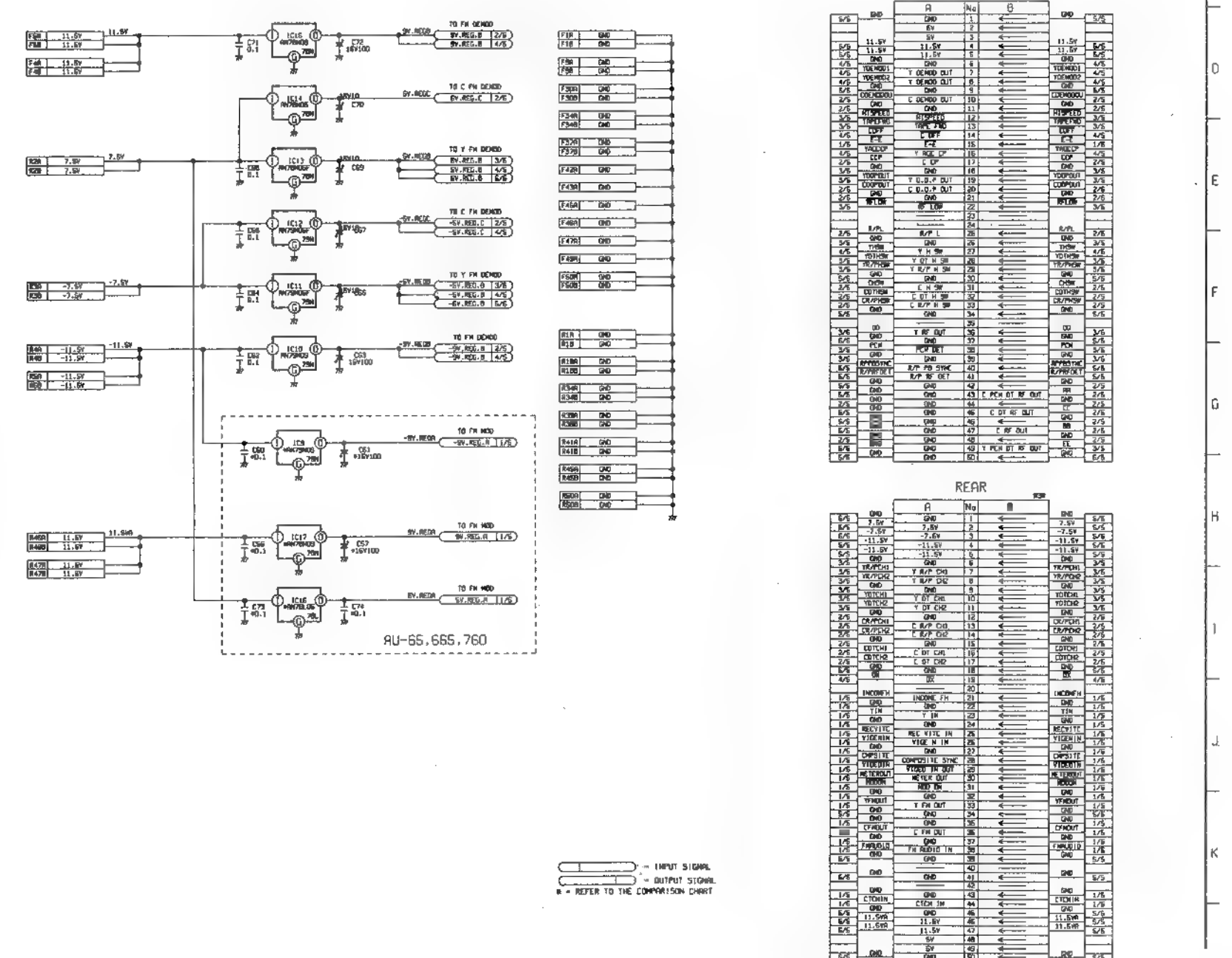
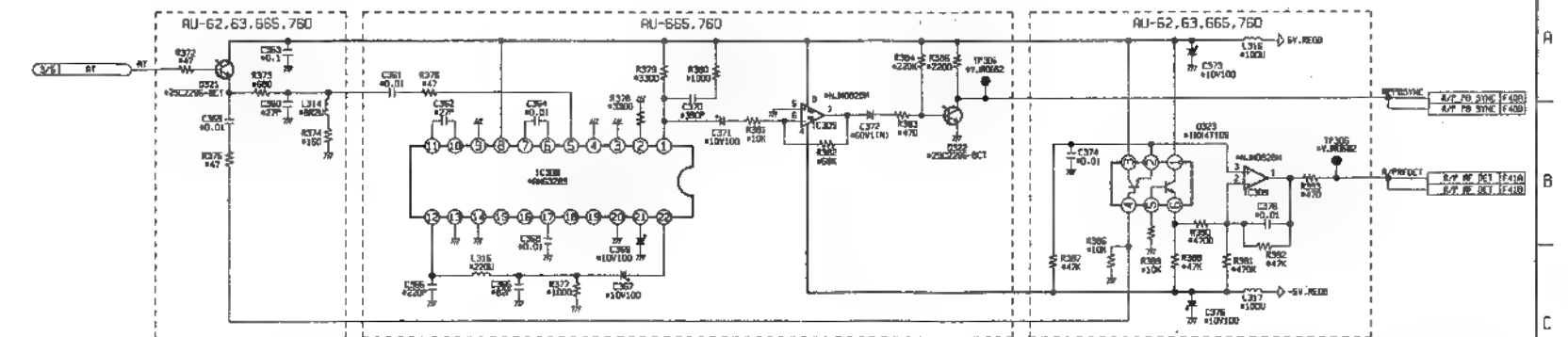
# AM 4/5

9 10 11 12 13 14 15 16



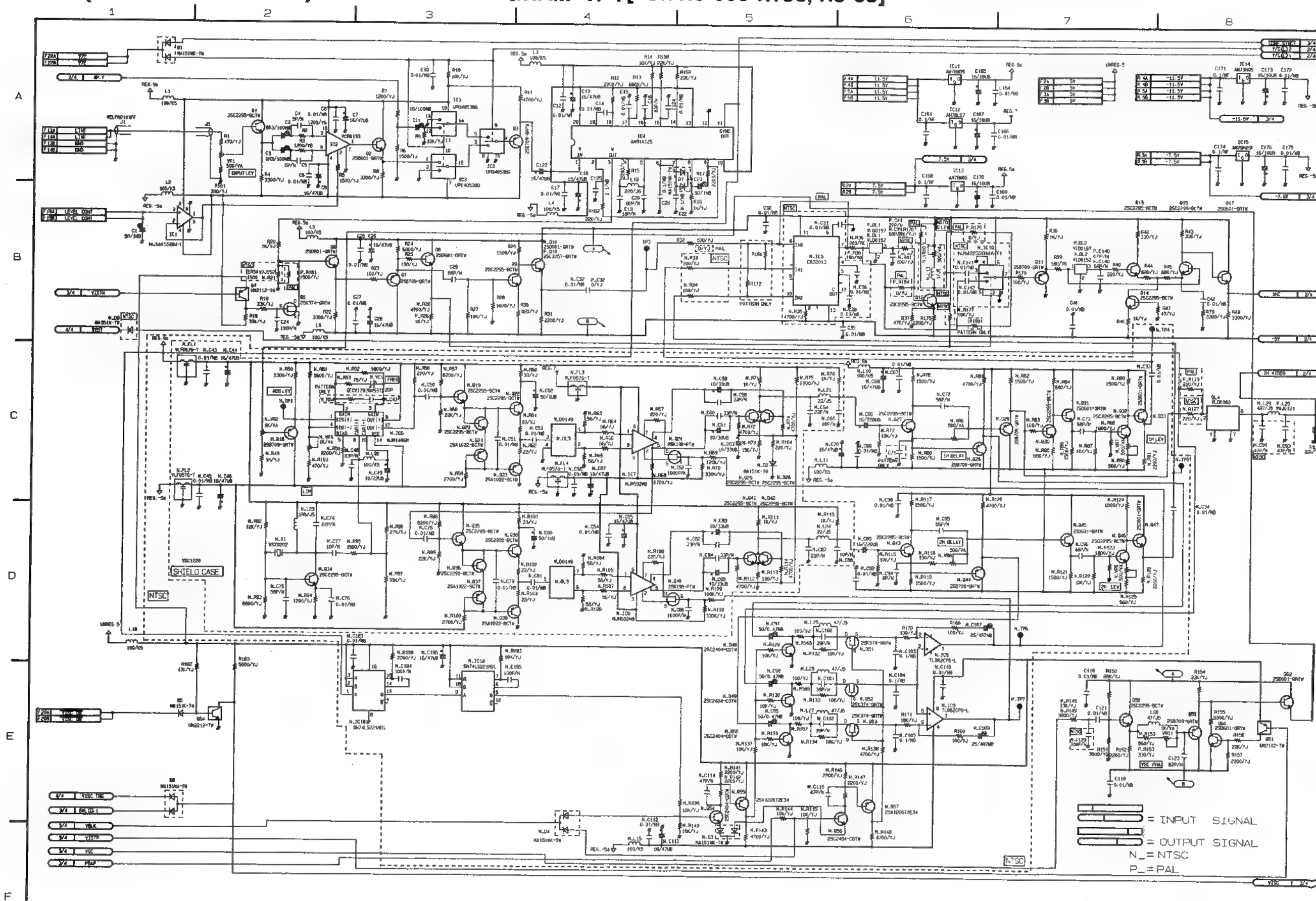
# W3 (MODULATION & DEMODULATION) SCHEMATIC DIAGRAM 5/5

1 2 3 4 5 6 7 8 9 10

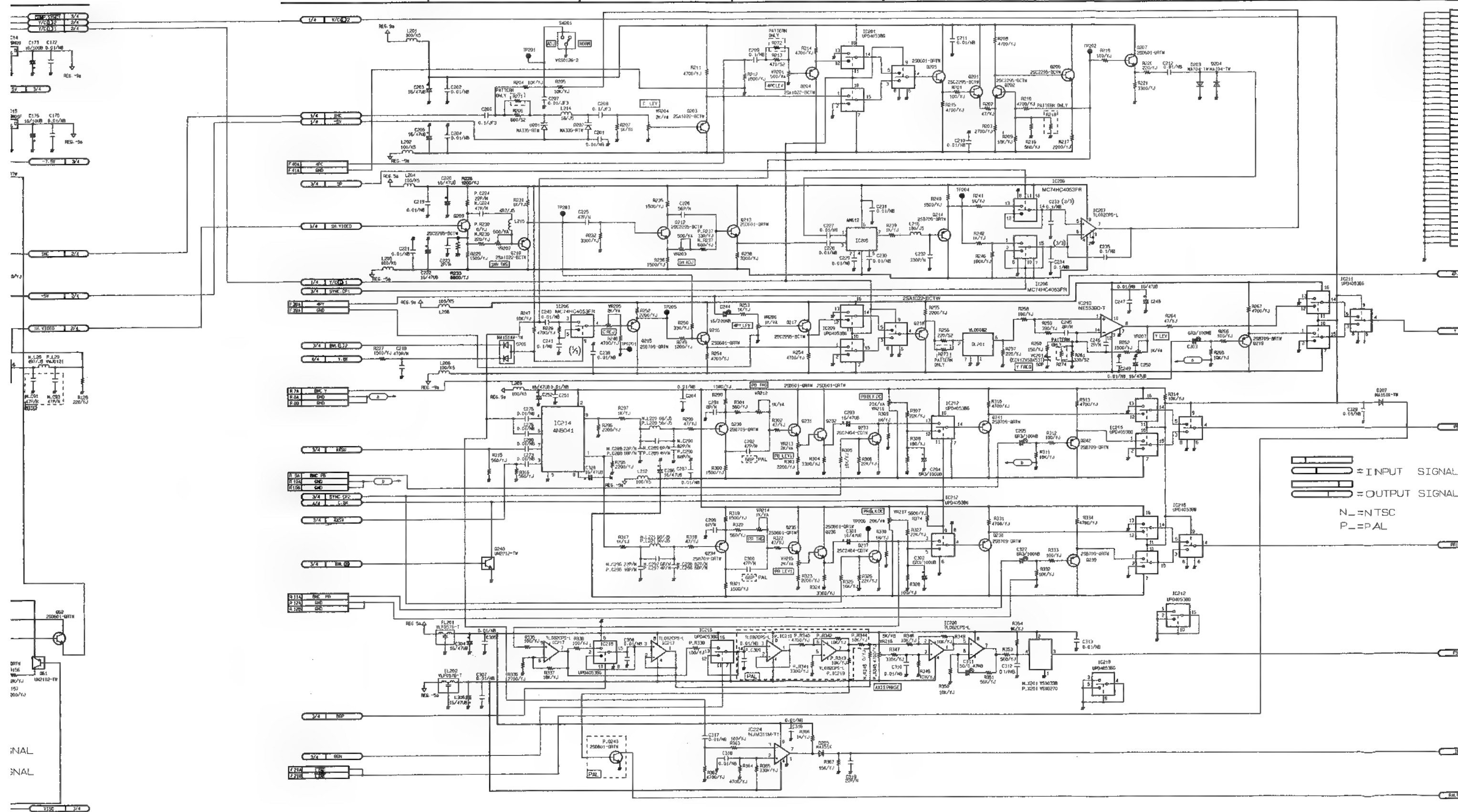


# W4 (DECODER & CTCM) SCHEMATIC DIAGRAM 1/4 [FOR AU-665 NTSC, AU-65]

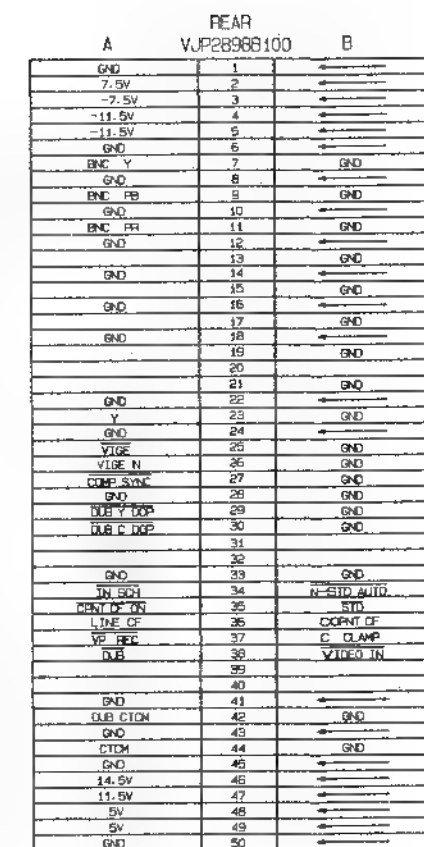
| MODEL | AU-665    | AU-65     | AU-63    | AU-62    |
|-------|-----------|-----------|----------|----------|
| TYPE  | AU-665    | AU-65     | AU-63    | AU-62    |
| NTSC  | VEP83099A | VEP83099A | Not Used | Not Used |
| PAL   | ---       | VEP83099B | Not Used | Not Used |



# W4 (DECODER & CTCM) SCHEMATIC DIAGRAM 2/4 [FOR AU-665 NTSC, AU-65]

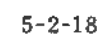




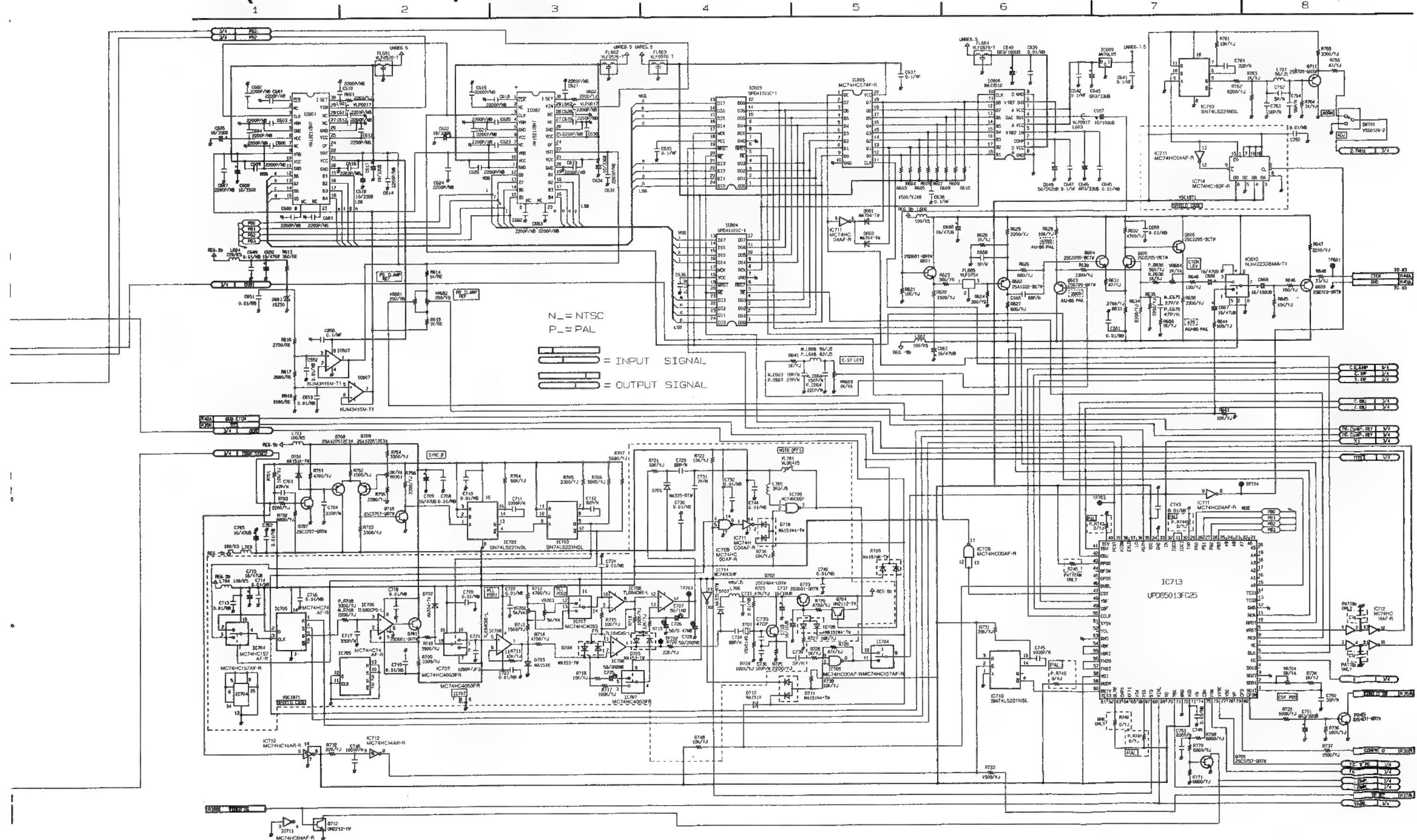


N\_ = NTS  
P\_ = PAI

### W4 (DECODER & CTCM) SCHEMATIC DIAGRAM 3/4 [FOR AU-665 NTSC, AU-65]

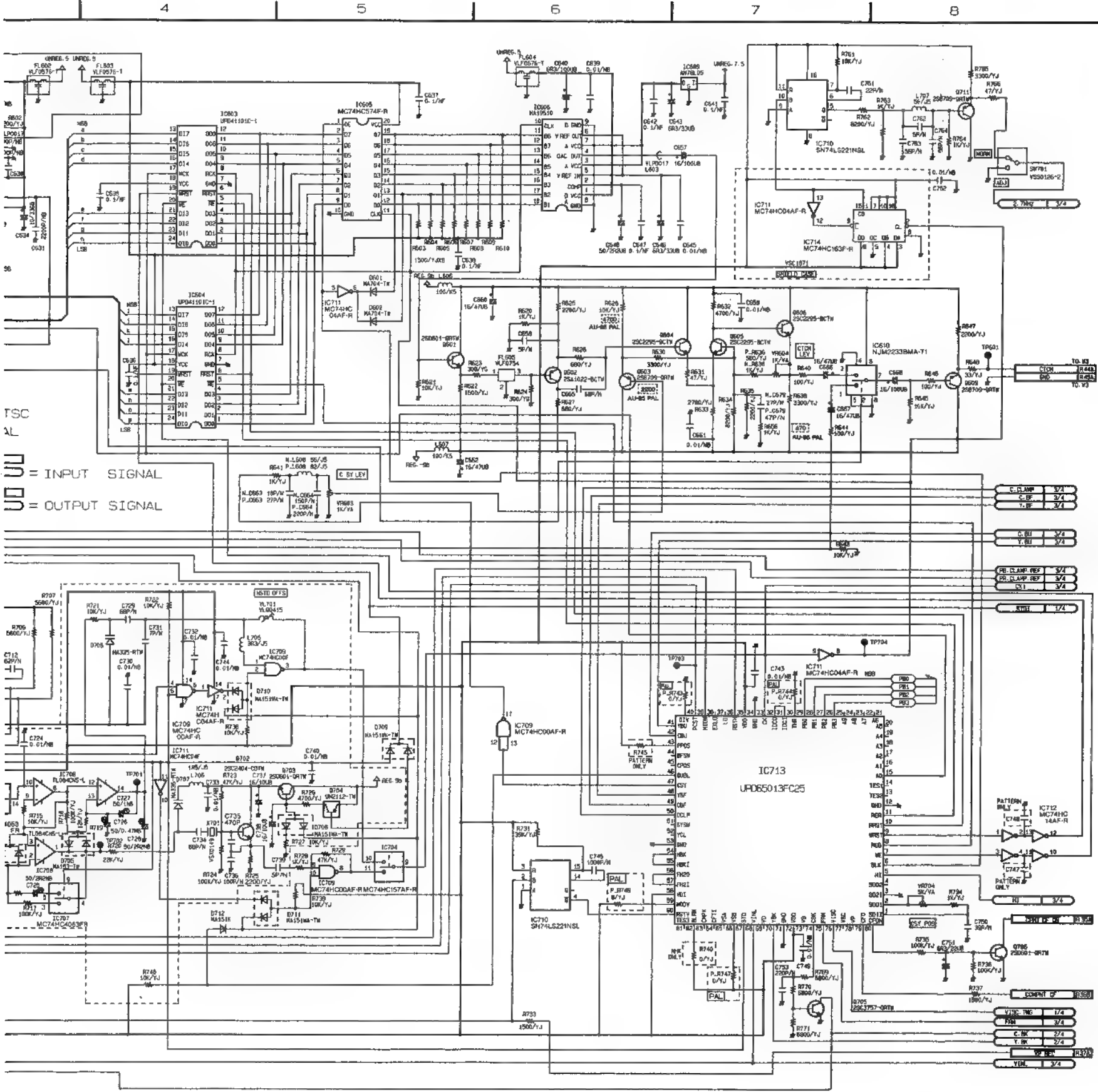


# W4 (DECODER & CTCM) SCHEMATIC DIAGRAM 4/4 [FOR AU-665 NTSC, AU-65]





C DIAGRAM 4/4 [FOR AU-665 NTSC, AU-65]

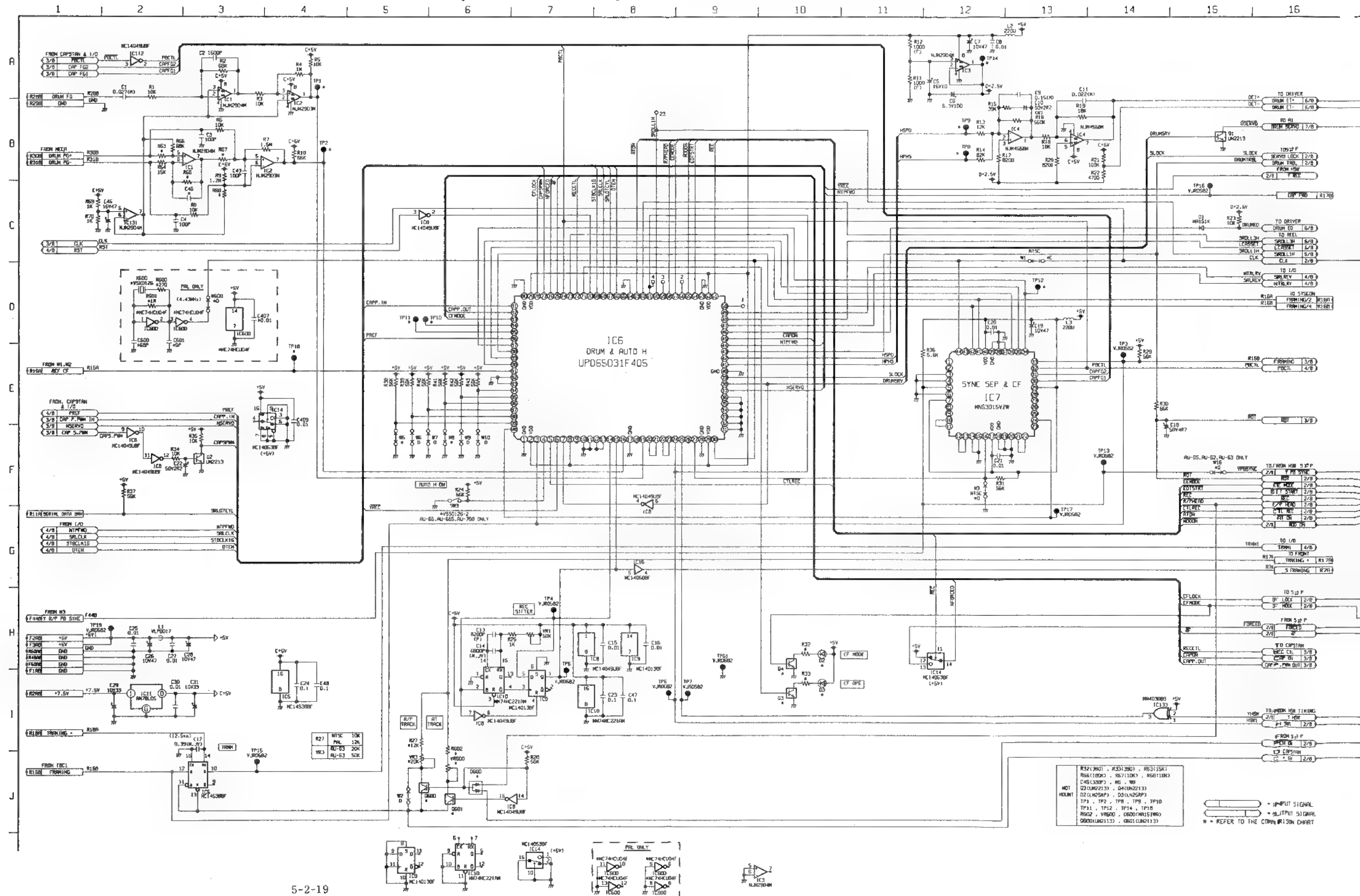


| FRONT<br>VJP2898B100 |    |    |
|----------------------|----|----|
| A                    |    | B  |
| 1                    | 2  | 3  |
| 4                    | 5  | 6  |
| 7                    | 8  | 9  |
| 10                   | 11 | 12 |
| 13                   | 14 | 15 |
| 16                   | 17 | 18 |
| 19                   | 20 | 21 |
| 22                   | 23 | 24 |
| 25                   | 26 | 27 |
| 28                   | 29 | 30 |
| 31                   | 32 | 33 |
| 34                   | 35 | 36 |
| 37                   | 38 | 39 |
| 40                   | 41 | 42 |
| 43                   | 44 | 45 |
| 46                   | 47 | 48 |
| 49                   | 50 | 51 |

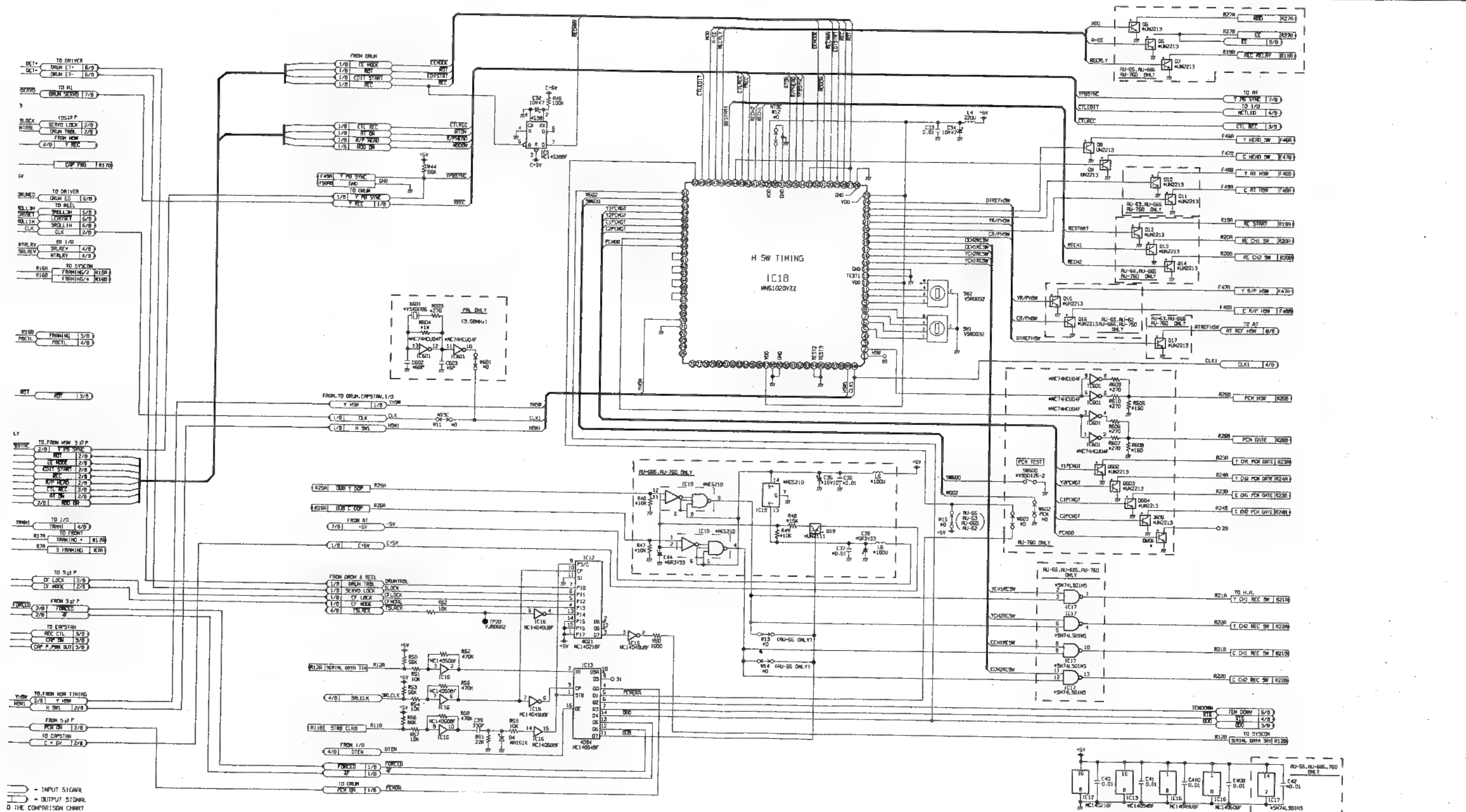
| REAR<br>VJP2898B100 |    |    |
|---------------------|----|----|
| A                   |    | B  |
| 1                   | 2  | 3  |
| 4                   | 5  | 6  |
| 7                   | 8  | 9  |
| 10                  | 11 | 12 |
| 13                  | 14 | 15 |
| 16                  | 17 | 18 |
| 19                  | 20 | 21 |
| 22                  | 23 | 24 |
| 25                  | 26 | 27 |
| 28                  | 29 | 30 |
| 31                  | 32 | 33 |
| 34                  | 35 | 36 |
| 37                  | 38 | 39 |
| 40                  | 41 | 42 |
| 43                  | 44 | 45 |
| 46                  | 47 | 48 |
| 49                  | 50 | 51 |

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  |           |           |           |           |
| NTSC  | VEP82061B | VEP82061A | VEP82061D | VEP82061C |
| PAL   | VEP82061G | VEP82061E | VEP82061F | VEP82061E |

# W5 (SERVO) SCHEMATIC DIAGRAM 1/8 (DRUM SERVO)



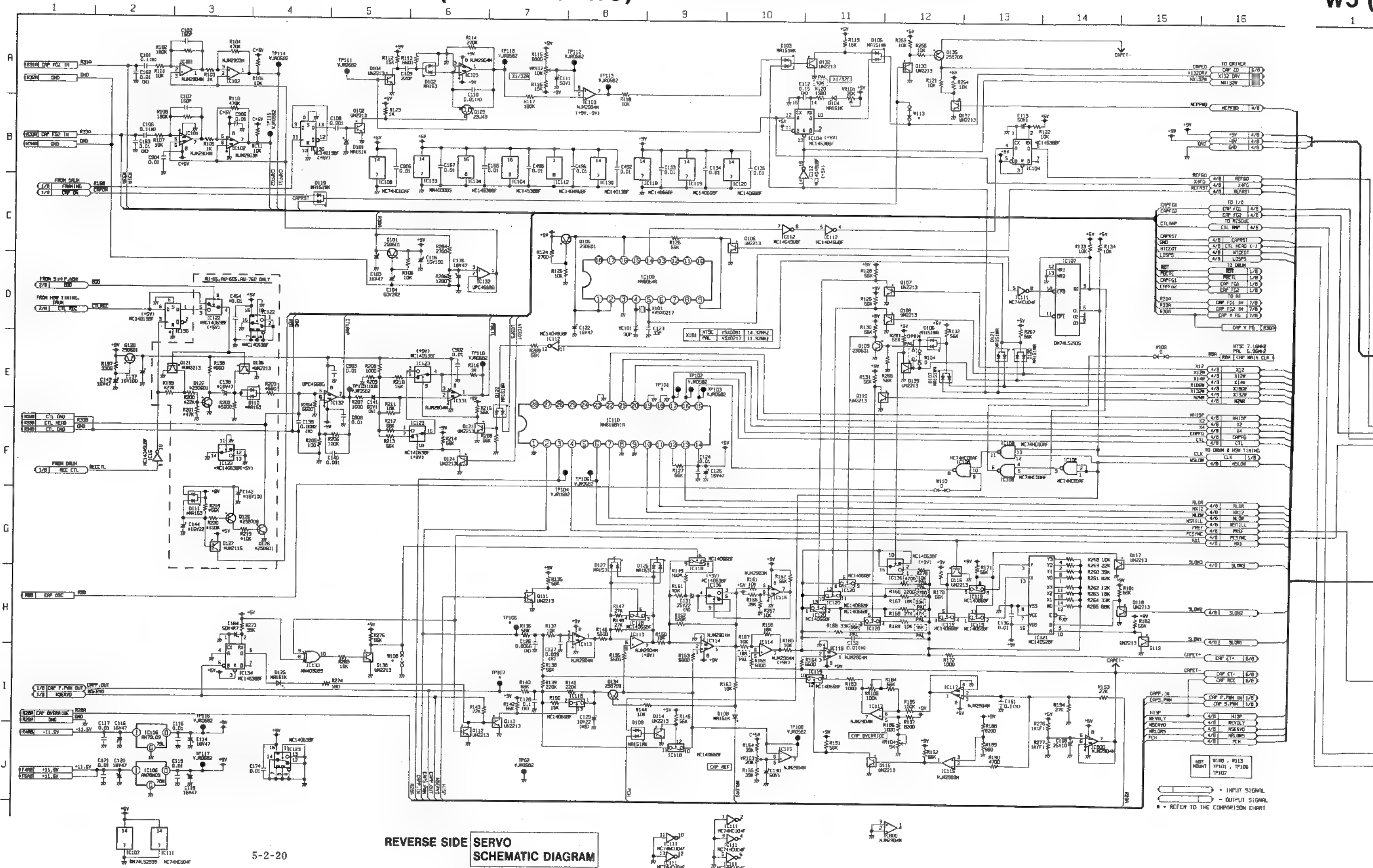
# W5 (SERVO) SCHEMATIC DIAGRAM 2/8 (HSW, S/P)



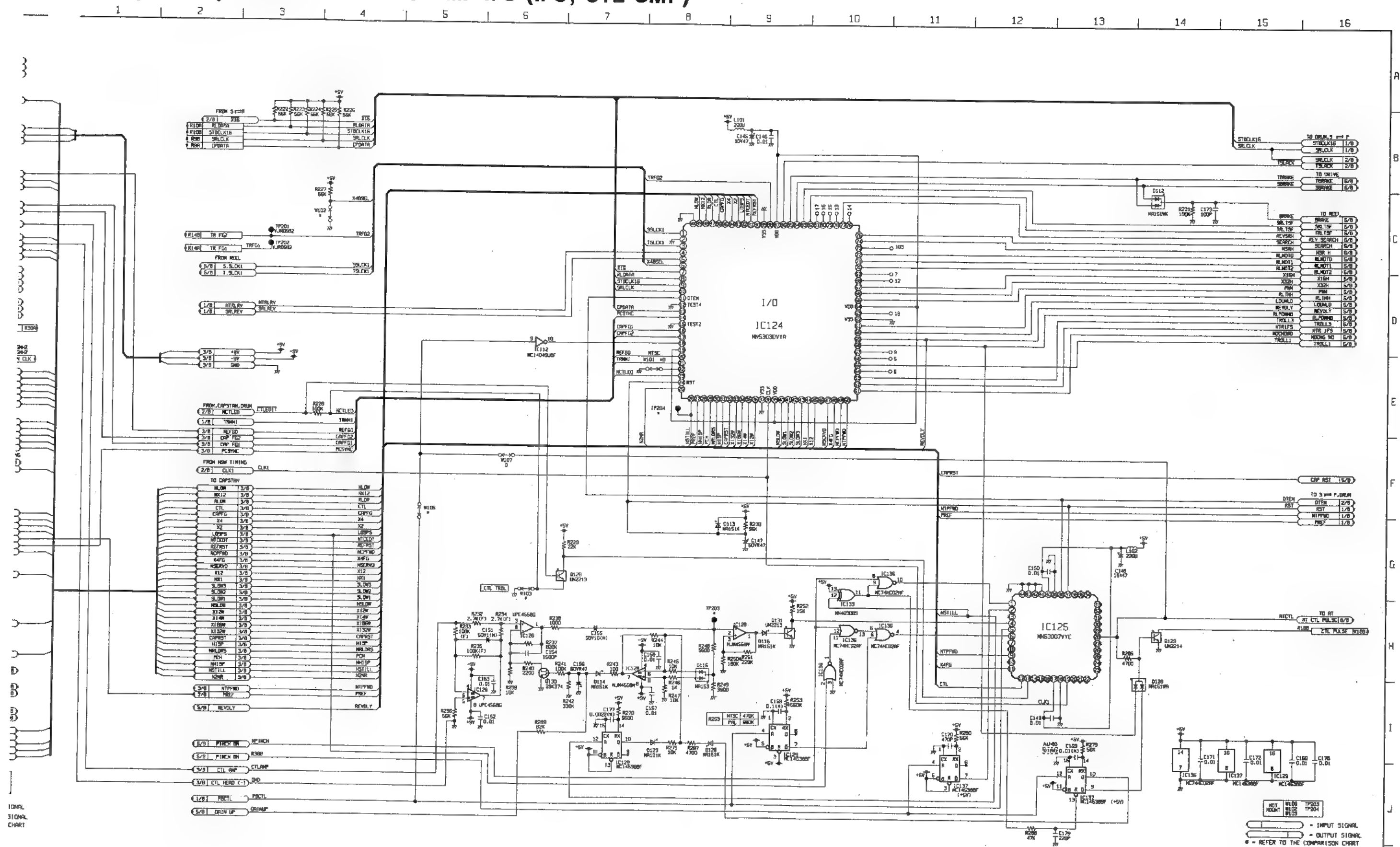
SERVO  
SCHEMATIC DIAGRAM

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  |           |           |           |           |
| NTSC  | VEP82061B | VEP82061A | VEP82061D | VEP82061C |
| PAL   | VEP82061G | VEP82061E | VEP82061F | VEP82061E |

W5 (SERVO) SCHEMATIC DIAGRAM 3/8 (CAPSTAN SERVO)



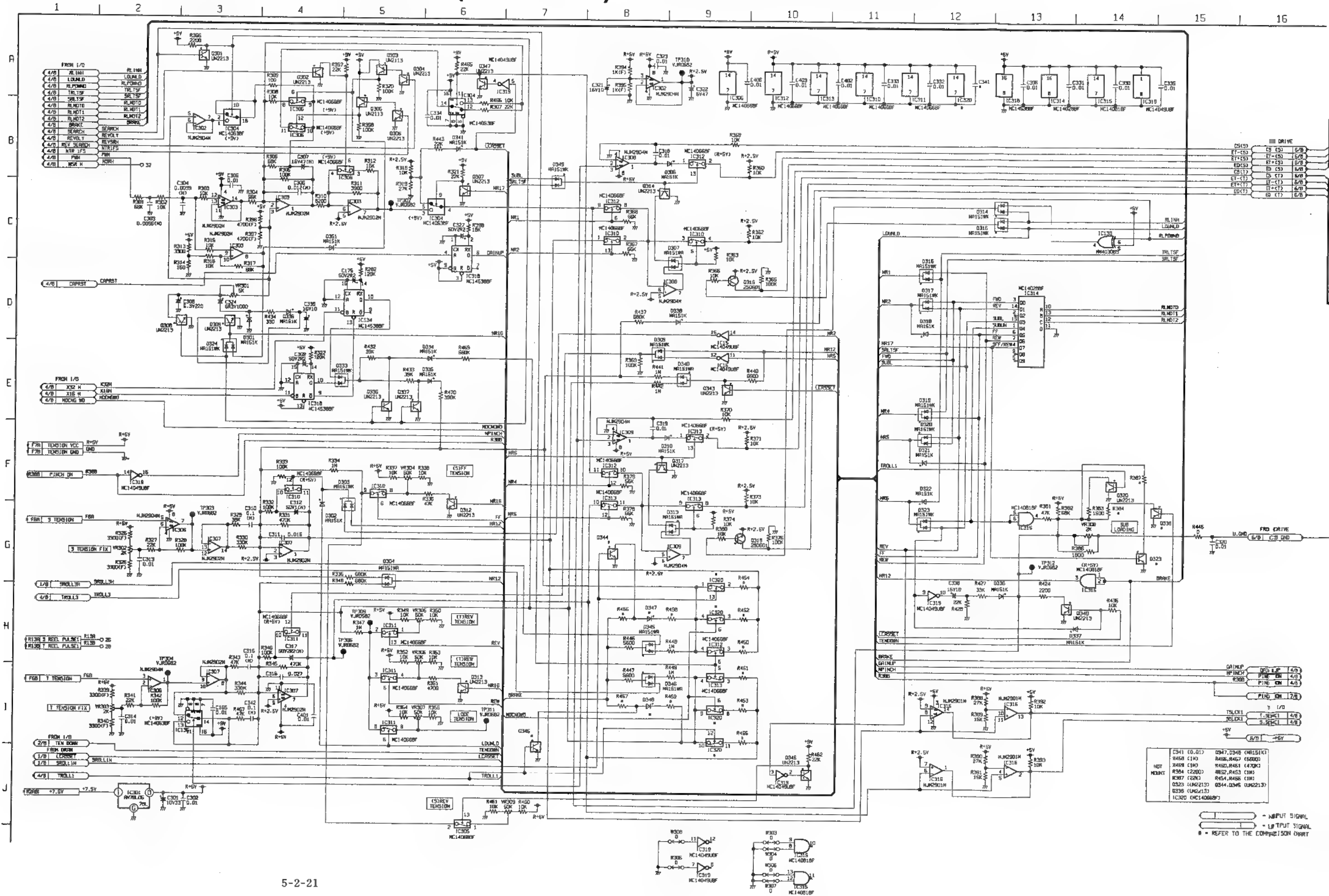
# W5 (SERVO) SCHEMATIC DIAGRAM 4/8 (I/O, CTL CMP)



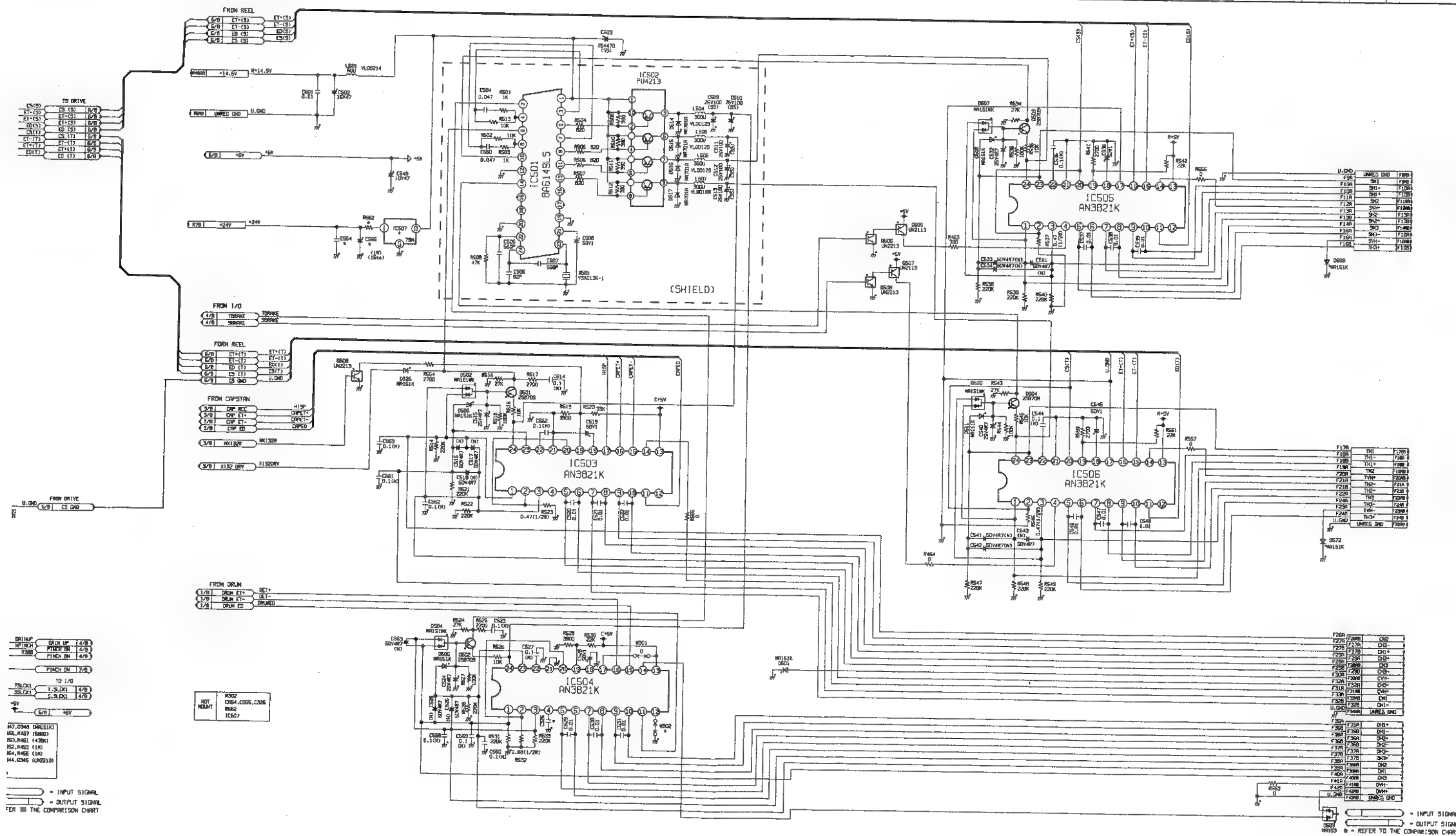


# W5 (SERVO) SCHEMATIC DIAGRAM 5/8 (REEL SERVO)

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP82061B | VEP82061A | VEP82061D | VEP82061C |
| NTSC  | VEP82061B | VEP82061A | VEP82061D | VEP82061C |
| PAL   | VEP82061G | VEP82061E | VEP82061F | VEP82061E |



## W5 (SERVO) SCHEMATIC DIAGRAM 6/8 (SERVO DRIVE)



| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP82061B | AT is not | VEP82061D | AT is not |
| PAL           | VEP82061G | Provided  | VEP82061F | Provided  |

## W5 (S

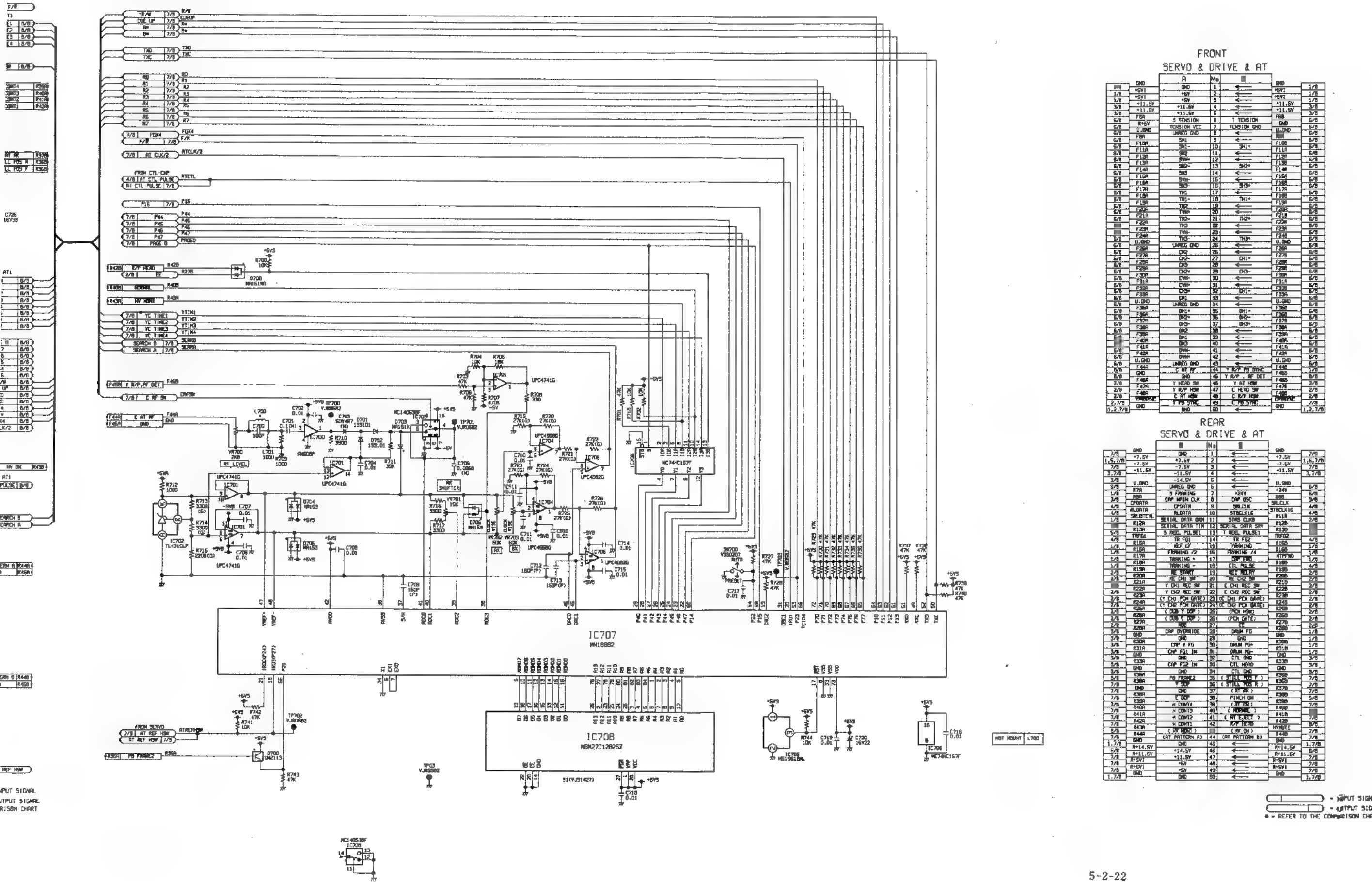


5-2-22



# W5 (SERVO) SCHEMATIC DIAGRAM 8/8 (AUTO TRACKING 2)[FOR AU-665,AU-65]

16 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



## FRONT SERVO & DRIVE & AT

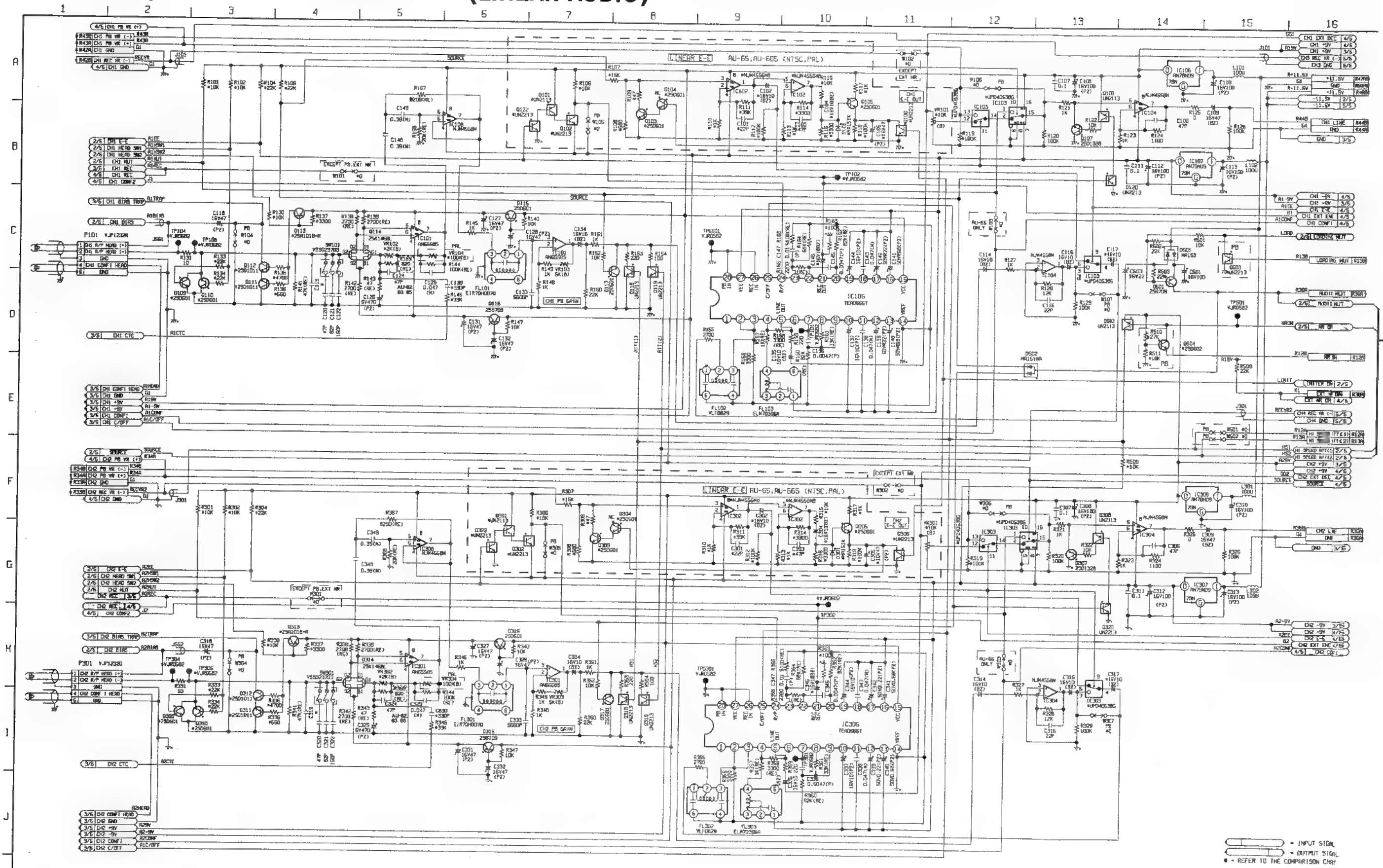
| Pin | Signal | Pin | Signal | Pin | Signal | Pin | Signal |
|-----|--------|-----|--------|-----|--------|-----|--------|
| 1   | 5V     | 1   | 5V     | 1   | 5V     | 1   | 5V     |
| 2   | 5V     | 2   | 5V     | 2   | 5V     | 2   | 5V     |
| 3   | 5V     | 3   | 5V     | 3   | 5V     | 3   | 5V     |
| 4   | 5V     | 4   | 5V     | 4   | 5V     | 4   | 5V     |
| 5   | 5V     | 5   | 5V     | 5   | 5V     | 5   | 5V     |
| 6   | 5V     | 6   | 5V     | 6   | 5V     | 6   | 5V     |
| 7   | 5V     | 7   | 5V     | 7   | 5V     | 7   | 5V     |
| 8   | 5V     | 8   | 5V     | 8   | 5V     | 8   | 5V     |
| 9   | 5V     | 9   | 5V     | 9   | 5V     | 9   | 5V     |
| 10  | 5V     | 10  | 5V     | 10  | 5V     | 10  | 5V     |
| 11  | 5V     | 11  | 5V     | 11  | 5V     | 11  | 5V     |
| 12  | 5V     | 12  | 5V     | 12  | 5V     | 12  | 5V     |
| 13  | 5V     | 13  | 5V     | 13  | 5V     | 13  | 5V     |
| 14  | 5V     | 14  | 5V     | 14  | 5V     | 14  | 5V     |
| 15  | 5V     | 15  | 5V     | 15  | 5V     | 15  | 5V     |
| 16  | 5V     | 16  | 5V     | 16  | 5V     | 16  | 5V     |
| 17  | 5V     | 17  | 5V     | 17  | 5V     | 17  | 5V     |
| 18  | 5V     | 18  | 5V     | 18  | 5V     | 18  | 5V     |
| 19  | 5V     | 19  | 5V     | 19  | 5V     | 19  | 5V     |
| 20  | 5V     | 20  | 5V     | 20  | 5V     | 20  | 5V     |
| 21  | 5V     | 21  | 5V     | 21  | 5V     | 21  | 5V     |
| 22  | 5V     | 22  | 5V     | 22  | 5V     | 22  | 5V     |
| 23  | 5V     | 23  | 5V     | 23  | 5V     | 23  | 5V     |
| 24  | 5V     | 24  | 5V     | 24  | 5V     | 24  | 5V     |
| 25  | 5V     | 25  | 5V     | 25  | 5V     | 25  | 5V     |
| 26  | 5V     | 26  | 5V     | 26  | 5V     | 26  | 5V     |
| 27  | 5V     | 27  | 5V     | 27  | 5V     | 27  | 5V     |
| 28  | 5V     | 28  | 5V     | 28  | 5V     | 28  | 5V     |
| 29  | 5V     | 29  | 5V     | 29  | 5V     | 29  | 5V     |
| 30  | 5V     | 30  | 5V     | 30  | 5V     | 30  | 5V     |
| 31  | 5V     | 31  | 5V     | 31  | 5V     | 31  | 5V     |
| 32  | 5V     | 32  | 5V     | 32  | 5V     | 32  | 5V     |
| 33  | 5V     | 33  | 5V     | 33  | 5V     | 33  | 5V     |
| 34  | 5V     | 34  | 5V     | 34  | 5V     | 34  | 5V     |
| 35  | 5V     | 35  | 5V     | 35  | 5V     | 35  | 5V     |
| 36  | 5V     | 36  | 5V     | 36  | 5V     | 36  | 5V     |
| 37  | 5V     | 37  | 5V     | 37  | 5V     | 37  | 5V     |
| 38  | 5V     | 38  | 5V     | 38  | 5V     | 38  | 5V     |
| 39  | 5V     | 39  | 5V     | 39  | 5V     | 39  | 5V     |
| 40  | 5V     | 40  | 5V     | 40  | 5V     | 40  | 5V     |
| 41  | 5V     | 41  | 5V     | 41  | 5V     | 41  | 5V     |
| 42  | 5V     | 42  | 5V     | 42  | 5V     | 42  | 5V     |
| 43  | 5V     | 43  | 5V     | 43  | 5V     | 43  | 5V     |
| 44  | 5V     | 44  | 5V     | 44  | 5V     | 44  | 5V     |
| 45  | 5V     | 45  | 5V     | 45  | 5V     | 45  | 5V     |
| 46  | 5V     | 46  | 5V     | 46  | 5V     | 46  | 5V     |
| 47  | 5V     | 47  | 5V     | 47  | 5V     | 47  | 5V     |
| 48  | 5V     | 48  | 5V     | 48  | 5V     | 48  | 5V     |
| 49  | 5V     | 49  | 5V     | 49  | 5V     | 49  | 5V     |
| 50  | 5V     | 50  | 5V     | 50  | 5V     | 50  | 5V     |

## REAR SERVO & DRIVE & AT

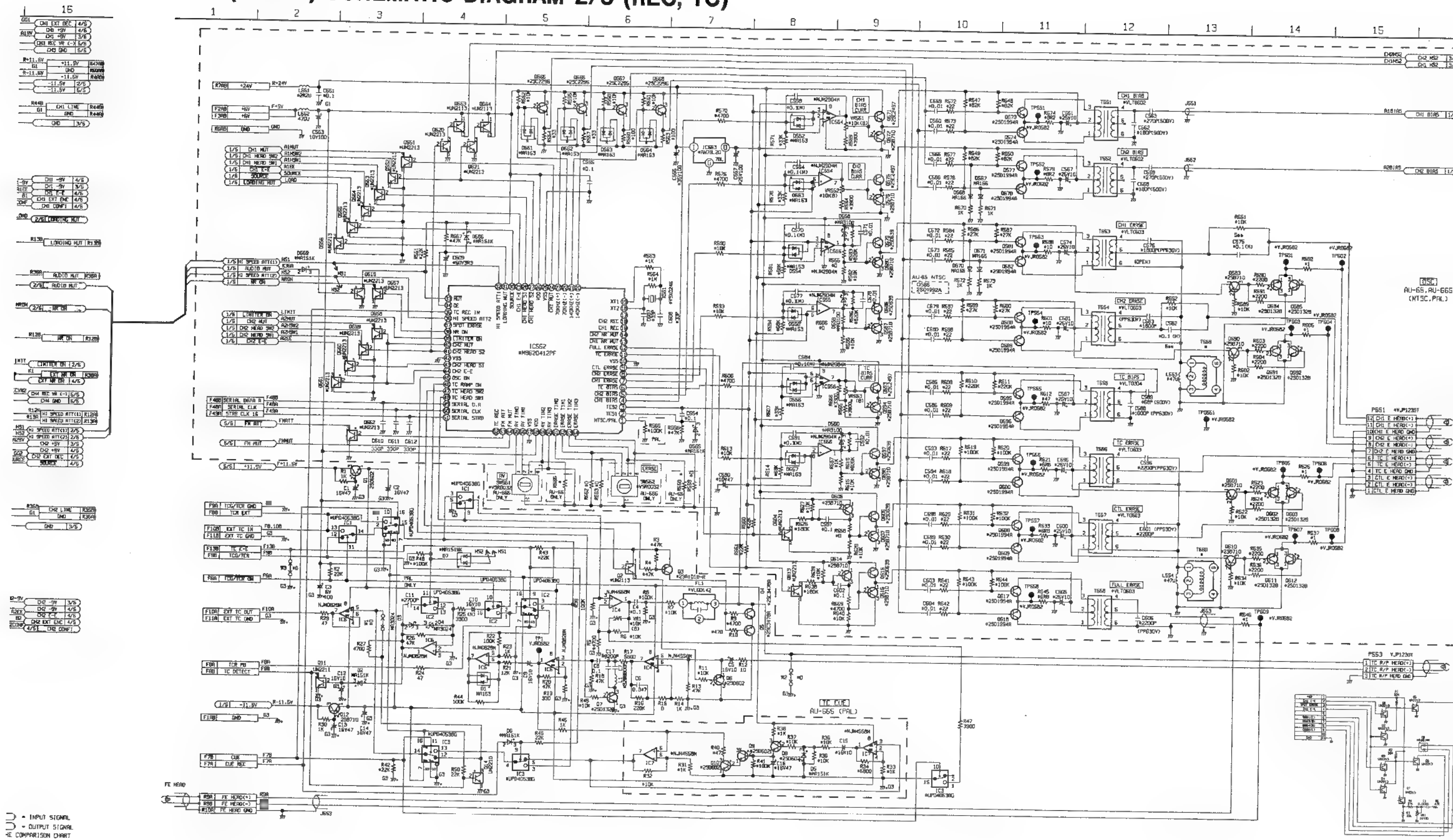
| Pin | Signal | Pin | Signal | Pin | Signal | Pin | Signal |
|-----|--------|-----|--------|-----|--------|-----|--------|
| 1   | 5V     | 1   | 5V     | 1   | 5V     | 1   | 5V     |
| 2   | 5V     | 2   | 5V     | 2   | 5V     | 2   | 5V     |
| 3   | 5V     | 3   | 5V     | 3   | 5V     | 3   | 5V     |
| 4   | 5V     | 4   | 5V     | 4   | 5V     | 4   | 5V     |
| 5   | 5V     | 5   | 5V     | 5   | 5V     | 5   | 5V     |
| 6   | 5V     | 6   | 5V     | 6   | 5V     | 6   | 5V     |
| 7   | 5V     | 7   | 5V     | 7   | 5V     | 7   | 5V     |
| 8   | 5V     | 8   | 5V     | 8   | 5V     | 8   | 5V     |
| 9   | 5V     | 9   | 5V     | 9   | 5V     | 9   | 5V     |
| 10  | 5V     | 10  | 5V     | 10  | 5V     | 10  | 5V     |
| 11  | 5V     | 11  | 5V     | 11  | 5V     | 11  | 5V     |
| 12  | 5V     | 12  | 5V     | 12  | 5V     | 12  | 5V     |
| 13  | 5V     | 13  | 5V     | 13  | 5V     | 13  | 5V     |
| 14  | 5V     | 14  | 5V     | 14  | 5V     | 14  | 5V     |
| 15  | 5V     | 15  | 5V     | 15  | 5V     | 15  | 5V     |
| 16  | 5V     | 16  | 5V     | 16  | 5V     | 16  | 5V     |
| 17  | 5V     | 17  | 5V     | 17  | 5V     | 17  | 5V     |
| 18  | 5V     | 18  | 5V     | 18  | 5V     | 18  | 5V     |
| 19  | 5V     | 19  | 5V     | 19  | 5V     | 19  | 5V     |
| 20  | 5V     | 20  | 5V     | 20  | 5V     | 20  | 5V     |
| 21  | 5V     | 21  | 5V     | 21  | 5V     | 21  | 5V     |
| 22  | 5V     | 22  | 5V     | 22  | 5V     | 22  | 5V     |
| 23  | 5V     | 23  | 5V     | 23  | 5V     | 23  | 5V     |
| 24  | 5V     | 24  | 5V     | 24  | 5V     | 24  | 5V     |
| 25  | 5V     | 25  | 5V     | 25  | 5V     | 25  | 5V     |
| 26  | 5V     | 26  | 5V     | 26  | 5V     | 26  | 5V     |
| 27  | 5V     | 27  | 5V     | 27  | 5V     | 27  | 5V     |
| 28  | 5V     | 28  | 5V     | 28  | 5V     | 28  | 5V     |
| 29  | 5V     | 29  | 5V     | 29  | 5V     | 29  | 5V     |
| 30  | 5V     | 30  | 5V     | 30  | 5V     | 30  | 5V     |
| 31  | 5V     | 31  | 5V     | 31  | 5V     | 31  | 5V     |
| 32  | 5V     | 32  | 5V     | 32  | 5V     | 32  | 5V     |
| 33  | 5V     | 33  | 5V     | 33  | 5V     | 33  | 5V     |
| 34  | 5V     | 34  | 5V     | 34  | 5V     | 34  | 5V     |
| 35  | 5V     | 35  | 5V     | 35  | 5V     | 35  | 5V     |
| 36  | 5V     | 36  | 5V     | 36  | 5V     | 36  | 5V     |
| 37  | 5V     | 37  | 5V     | 37  | 5V     | 37  | 5V     |
| 38  | 5V     | 38  | 5V     | 38  | 5V     | 38  | 5V     |
| 39  | 5V     | 39  | 5V     | 39  | 5V     | 39  | 5V     |
| 40  | 5V     | 40  | 5V     | 40  | 5V     | 40  | 5V     |
| 41  | 5V     | 41  | 5V     | 41  | 5V     | 41  | 5V     |
| 42  | 5V     | 42  | 5V     | 42  | 5V     | 42  | 5V     |
| 43  | 5V     | 43  | 5V     | 43  | 5V     | 43  | 5V     |
| 44  | 5V     | 44  | 5V     | 44  | 5V     | 44  | 5V     |
| 45  | 5V     | 45  | 5V     | 45  | 5V     | 45  | 5V     |
| 46  | 5V     | 46  | 5V     | 46  | 5V     | 46  | 5V     |
| 47  | 5V     | 47  | 5V     | 47  | 5V     | 47  | 5V     |
| 48  | 5V     | 48  | 5V     | 48  | 5V     | 48  | 5V     |
| 49  | 5V     | 49  | 5V     | 49  | 5V     | 49  | 5V     |
| 50  | 5V     | 50  | 5V     | 50  | 5V     | 50  | 5V     |

### W6 (AUDIO) SCHEMATIC DIAGRAM 1/5 (LINEAR AUDIO)

| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP84095B | VEP84095A | VEP84095C | VEP84095C |
| PAL           | VEP84095F | VEP84095D | VEP84095E | VEP84095E |



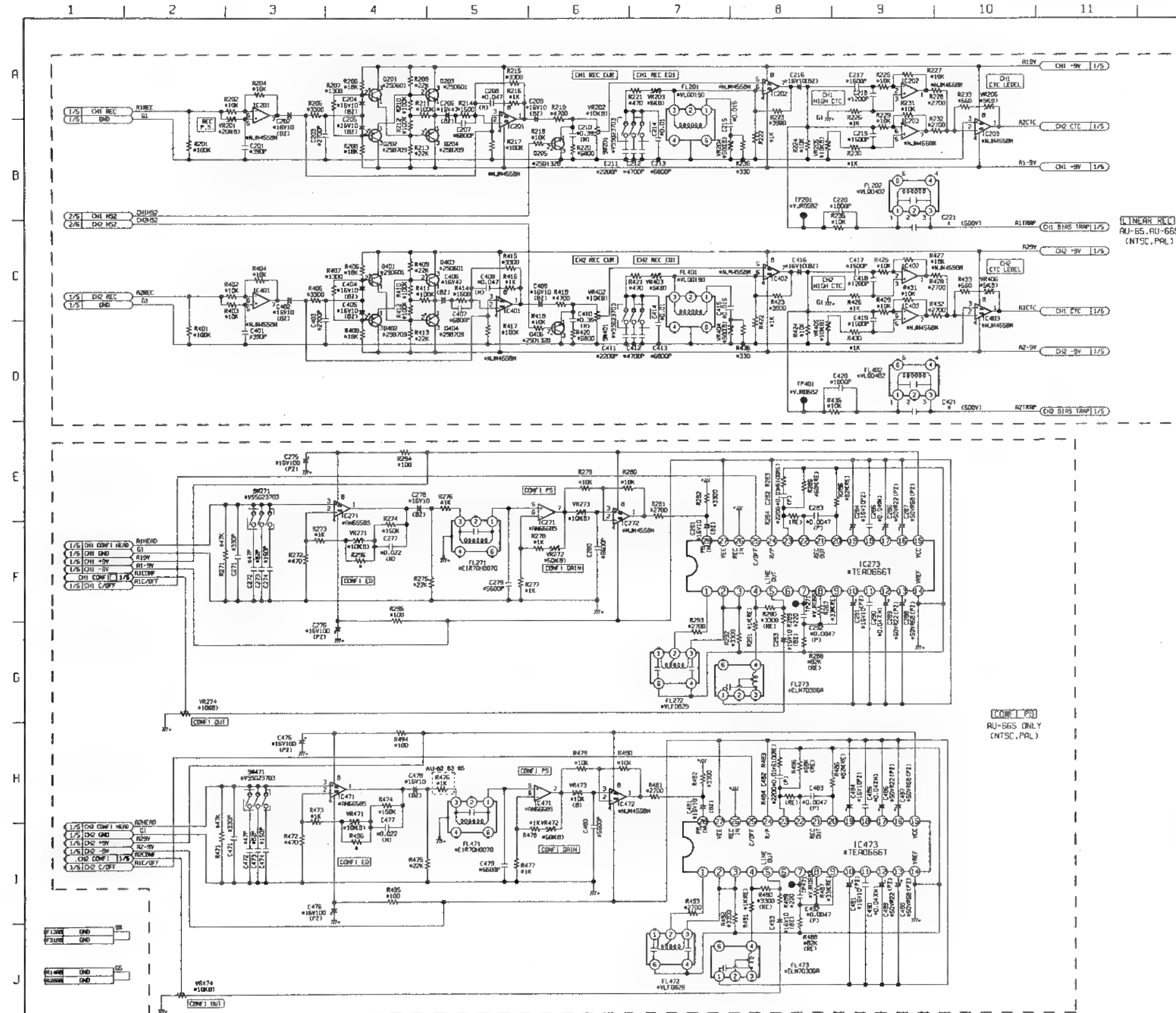
**W6 (AUDIO) SCHEMATIC DIAGRAM 2/5 (REC, TC)**



### AUDIO SCHEMATIC DIAGRAM

| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP84095B | VEP84095A | VEP84095C | VEP84095D |
| PAL           | VEP84095F | VEP84095D | VEP84095E | VEP84095F |

**W6 (AUDIO) SCHEMATIC DIAGRAM 3/5 (CONFI)**



| FRONT |               |         |               |    |            |         |            |     |  |
|-------|---------------|---------|---------------|----|------------|---------|------------|-----|--|
|       |               | A       |               | Mo | B          |         |            |     |  |
| 2/5   | QND           | G3      | QND           | 1  | QND        | G3      | QND        | 2/5 |  |
| 2/5   | +5V           | F+5V    | +5V           | 2  |            | F+5V    | +5V        | 2/5 |  |
| 2/5   | +5V           | F+5V    | +5V           | 3  |            | F+5V    | +5V        | 2/5 |  |
| 2/5   | +11.5V        | F+11.5V | +11.5V        | 4  |            | F+11.5V | +11.5V     | 2/5 |  |
| 2/5   | +11.5V        | F+11.5V | +11.5V        | 5  |            | F+11.5V | +11.5V     | 2/5 |  |
| 2/5   | TCOR TOR IN   | TOR     | TCOR TOR IN   | 6  | TC DETECT  | TOR     | TC DETECT  | 2/5 |  |
| 2/5   | CUR REC       | TOR     | CUR REC       | 7  | CUR        | FB TOR  | CUR        | 2/5 |  |
| 2/5   | TOR PB        | G3      | TOR PB        | 8  | TOR EXT    | FB TOR  | TOR EXT    | 2/5 |  |
| 2/5   | TCOR TCOR QND | F10M    | TCOR TCOR QND | 9  | TCOR TOR   | FB TOR  | TCOR TOR   | 2/5 |  |
| 2/5   | EXT TC IN     | G3      | EXT TC IN     | 10 | EXT TC IN  | FB TOR  | EXT TC IN  | 2/5 |  |
| 2/5   | EXT TC QND    | G3      | EXT TC QND    | 11 | EXT TC QND | G4      | EXT TC QND | 2/5 |  |
| 3/5   | QND           | G4      | QND           | 12 | QND        | G4      | QND        | 3/5 |  |
|       |               |         |               | 13 | TC E-E     |         | TC E-E     | 2/5 |  |

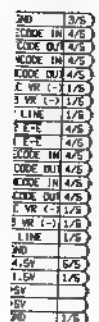
|     |               |       |               |    |                |       |                    |
|-----|---------------|-------|---------------|----|----------------|-------|--------------------|
| 3/5 | DND           | G4    | GND           | 31 | G4             | GND   | 3/5                |
| 4/5 | FM INT        | F30P  | FM INT        | 32 | FM INT         | F30P  | FM INT             |
| 5/5 | DND           | G2    | DND           | 33 | DND            | G2    | DND                |
| 1/5 | CH3 DND       | G3    | CH3 DND       | 34 | CH3 REC VR (-) | RECVR | CH3 REC VR (-) 5/5 |
| 2/5 | CH3 PB VR (+) | F35P  | CH3 PB VR (+) | 35 | CH3 PB VR (-)  | F35P  | CH3 PB VR (-) 5/5  |
| 3/5 | DND           | G2    | DND           | 36 | CH3 LINE       | F36   | CH3 LINE           |
| 4/5 | DND           | G2    | DND           | 37 | DND            | G2    | DND                |
| 1/5 | CH3 DND       | F35P  | CH3 DND       | 38 | CH4 REC VR (-) | RECVR | CH4 REC VR (-) 5/5 |
| 2/5 | CH4 PB VR (+) | F36P  | CH4 PB VR (+) | 39 | CH4 LINE (-)   | F36P  | CH4 LINE (-) 5/5   |
| 3/5 | DND           | G2    | DND           | 40 | DND            | F40B  | DND                |
| 4/5 | DND           | G2    | DND           | 41 | DND            | G2    | DND                |
| 5/5 | DND           | G2    | DND           | 42 | FM AUDIO       | F42B  | FM AUDIO           |
| 1/5 | DND           | G2    | DND           | 43 | FM AUDIO       | F43B  | FM AUDIO           |
| 2/5 | DND           | G2    | DND           | 44 | FM AUDIO       | F44B  | FM AUDIO           |
| 3/5 | C DOP         | C DOP | C DOP         | 44 | C RF           | C RF  | C RF               |
| 4/5 | C DOP         | F45B  | C DOP         | 45 | C RF           | F45B  | C RF               |
| 5/5 | REC VR        | G2    | REC VR        | 46 | C RF           | F46B  | C RF               |
| 1/5 | CH3 REC VR    | G2    | CH3 REC VR    | 47 | C RF           | F47B  | C RF               |
| 2/5 | CH3 REC VR    | F48P  | CH3 REC VR    | 48 | C RF           | F48B  | C RF               |
| 3/5 | SERIAL CLK    | F49B  | SERIAL CLK    | 49 | SERIAL DATA    | F49B  | SERIAL DATA        |
| 4/5 | SERIAL CLK    | F49B  | SERIAL CLK    | 49 | SERIAL DATA    | F49B  | SERIAL DATA        |
| 5/5 | SERIAL CLK    | F49B  | SERIAL CLK    | 49 | SERIAL DATA    | F49B  | SERIAL DATA        |
| 1/5 | SERIAL CLK    | F49B  | SERIAL CLK    | 49 | SERIAL DATA    | F49B  | SERIAL DATA        |
| 2/5 | SERIAL CLK    | F49B  | SERIAL CLK    | 49 | SERIAL DATA    | F49B  | SERIAL DATA        |
| 3/5 | SERIAL CLK    | F49B  | SERIAL CLK    | 49 | SERIAL DATA    | F49B  | SERIAL DATA        |
| 4/5 | SERIAL CLK    | F49B  | SERIAL CLK    | 49 | SERIAL DATA    | F49B  | SERIAL DATA        |
| 5/5 | SERIAL CLK    | F49B  | SERIAL CLK    | 49 | SERIAL DATA    | F49B  | SERIAL DATA        |

[illegible]

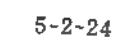
|     |               |         |                |     |                |         |                    |
|-----|---------------|---------|----------------|-----|----------------|---------|--------------------|
| 3/5 | GND           | G1      | GND            | GND | G5             | GND     | 3/6                |
| 4/6 | CH2 GND       | G1      | CH2 GND        | 28  | CH2 DECODE IN  | K2P0    | CH2 DECODE IN 4/6  |
| 5/6 | CH2 GND       | G1      | CH2 GND        | 31  | CH2 DECODE IN  | K2P1    | CH2 DECODE IN 4/6  |
| 6/6 | CH2 GND       | G1      | CH2 GND        | 33  | CH2 DECODE IN  | R312    | CH2 DECODE IN 4/6  |
| 1/5 | CH2 GND       | G1      | CH2 GND        | 30  | CH2 ENCODE OUT | N2R2    | CH2 ENCODE OUT 4/6 |
| 4/5 | CH2 GND       | R348    | CH2 REC VR (-) | 33  | CH2 REC VR (-) | K2R2    | CH2 REC VR (-) 4/6 |
| 1/7 | CH2 PB VR (+) | G1      | CH2 PB VR (+)  | 34  | CH2 PB VR (-)  | K2R2    | CH2 PB VR (-) 1/6  |
| 1/7 | GND           | G1      | GND            | 36  | CH2 LINE       | K3R2    | CH2 LINE 1/6       |
| 1/6 | VIDEO IN1     | R349    | AUDIO IN1      | 36  | CH2 LINE       | K3R2    | CH2 LINE 1/6       |
| 4/6 | EXT VR IN1    | R339    | EXT VR IN1     | 37  | CH2 E-2        | R370    | CH2 E-2 4/6        |
| 1/6 | EXT VR IN1    | R3      | EXT VR IN1     | 38  | CH2 DECODE IN  | R410    | CH2 DECODE IN 4/6  |
| 4/5 | CH1 GND       | G1      | CH1 GND        | 39  | CH1 DECODE OUT | R410    | CH1 DECODE OUT 4/6 |
| 4/5 | CH1 GND       | G1      | CH1 GND        | 40  | CH1 ENCODE IN  | R411    | CH1 ENCODE IN 4/6  |
| 1/5 | CH1 GND       | G1      | CH1 GND        | 41  | CH1 ENCODE OUT | R411    | CH1 ENCODE OUT 4/6 |
| 4/5 | CH1 GND       | R438    | CH1 REC VR (-) | 43  | CH1 REC VR (-) | R438    | CH1 REC VR (-) 4/6 |
| 1/6 | CH1 PB VR (+) | G1      | CH1 PB VR (+)  | 43  | CH1 PB VR (-)  | R438    | CH1 PB VR (-) 1/6  |
| 1/6 | GND           | G1      | GND            | 44  | CH1 LINE       | R448    | CH1 LINE 1/6       |
| 1/5 | R+14.5V       | GND     | GND            | 45  |                | R+14.5V | GND                |
| 1/5 | +14.5V        | R+11.5V | +14.5V         | 47  |                | R+11.5V | +14.5V             |
| 1/5 | +5V           | RRP49   | +5V            | 48  |                | RRP49   | +11.5V 1/5         |
|     | +5V           | RRP49   | +5V            | 49  |                | RRP49   | +5V                |
| 1/5 | GND           | GND     | GND            | 50  | GND            | GND     | 1/5                |

 - INPUT SIGNAL  
 - OUTPUT SIGNAL  
 - REFER TO THE COMPARISON CHIT

## REVERSE SIDE AUDIO SCHEMATIC DIAGRAM



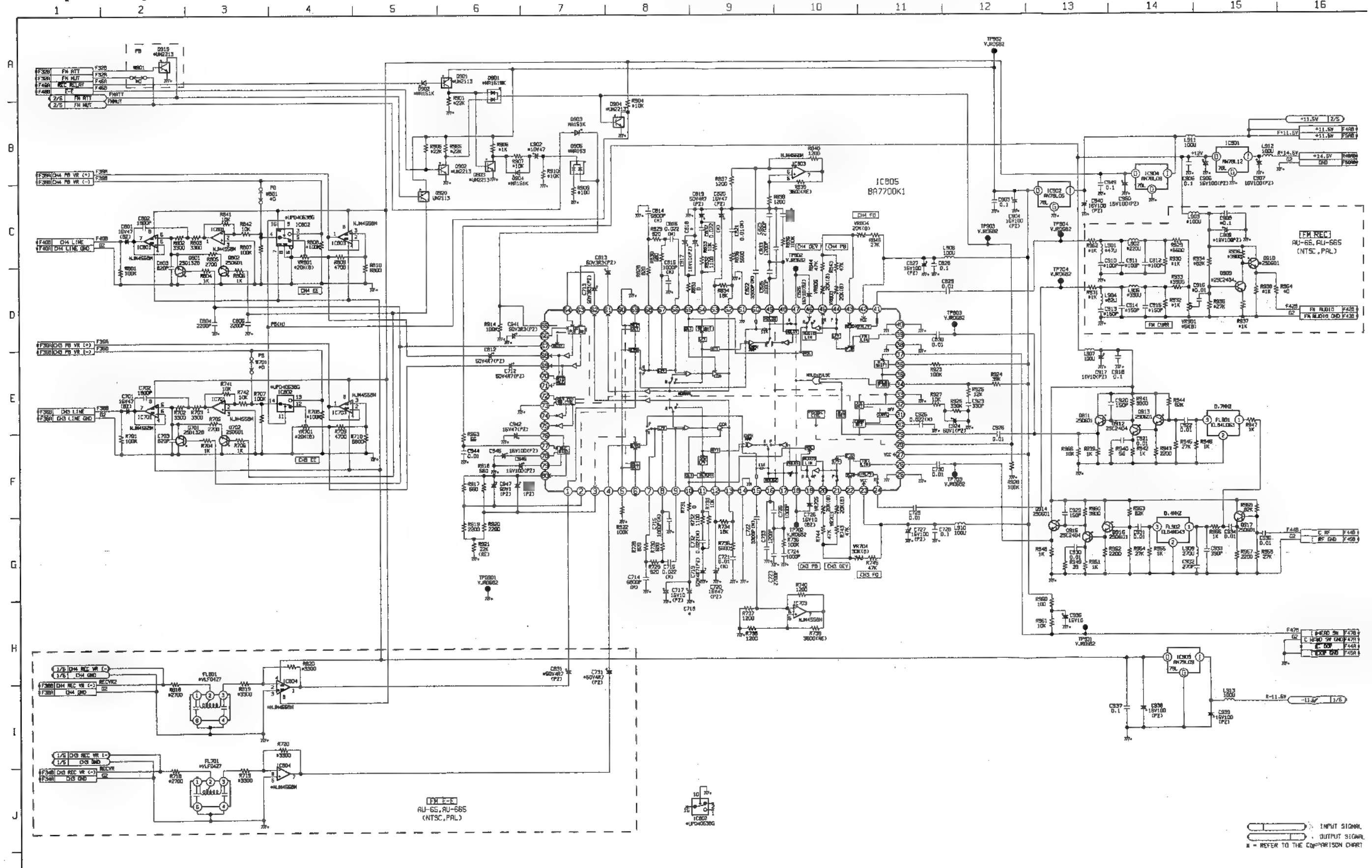
INPUT SIGNAL  
OUTPUT SIGNAL  
PRISON CHART





# W6 (AUDIO) SCHEMATIC DIAGRAM 5/5 (FM AUDIO)

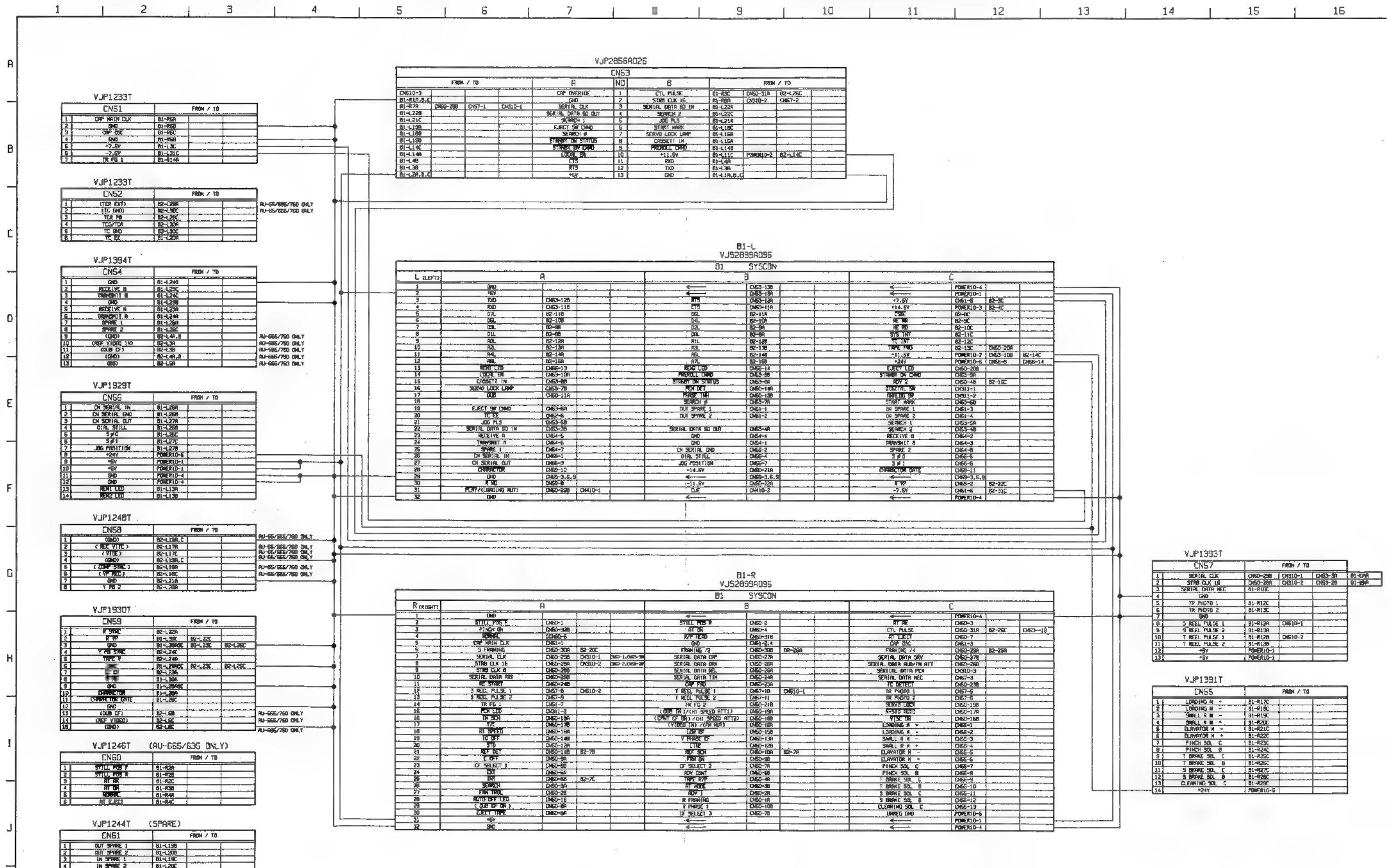
| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP84095B | VEP84095A | VEP84095C | VEP84095C |
| NTSC  | VEP84095B | VEP84095A | VEP84095C | VEP84095C |
| PAL   | VEP84095F | VEP84095D | VEP84095E | VEP84095E |



# B. MOTHER SCHEMATIC DIAGRAM

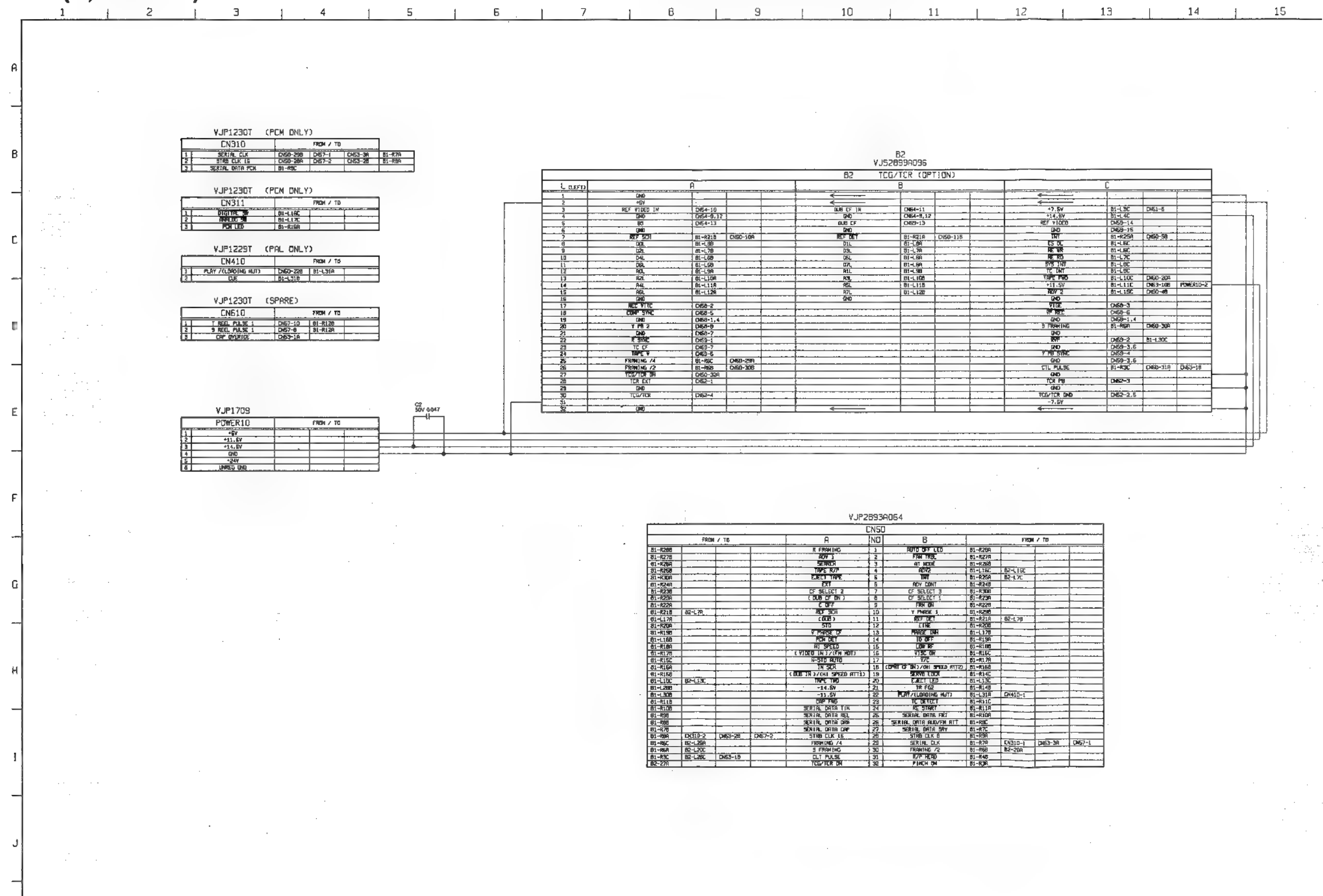
| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP80549B | VEP80549A | VEP80549B | VEP80549A |
| PAL   | VEP80549C | VEP80549A | VEP80549B | VEP80549A |

## BO (B,MOTHER) SCHEMATIC DIAGRAM 1/2



# BO (B,MOTHER) SCHEMATIC DIAGRAM 2/2

| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP80549B | VEP80549A | VEP80549B | VEP80549A |
| PAL           | VEP80549C | VEP80549A | VEP80549B | VEP80549A |

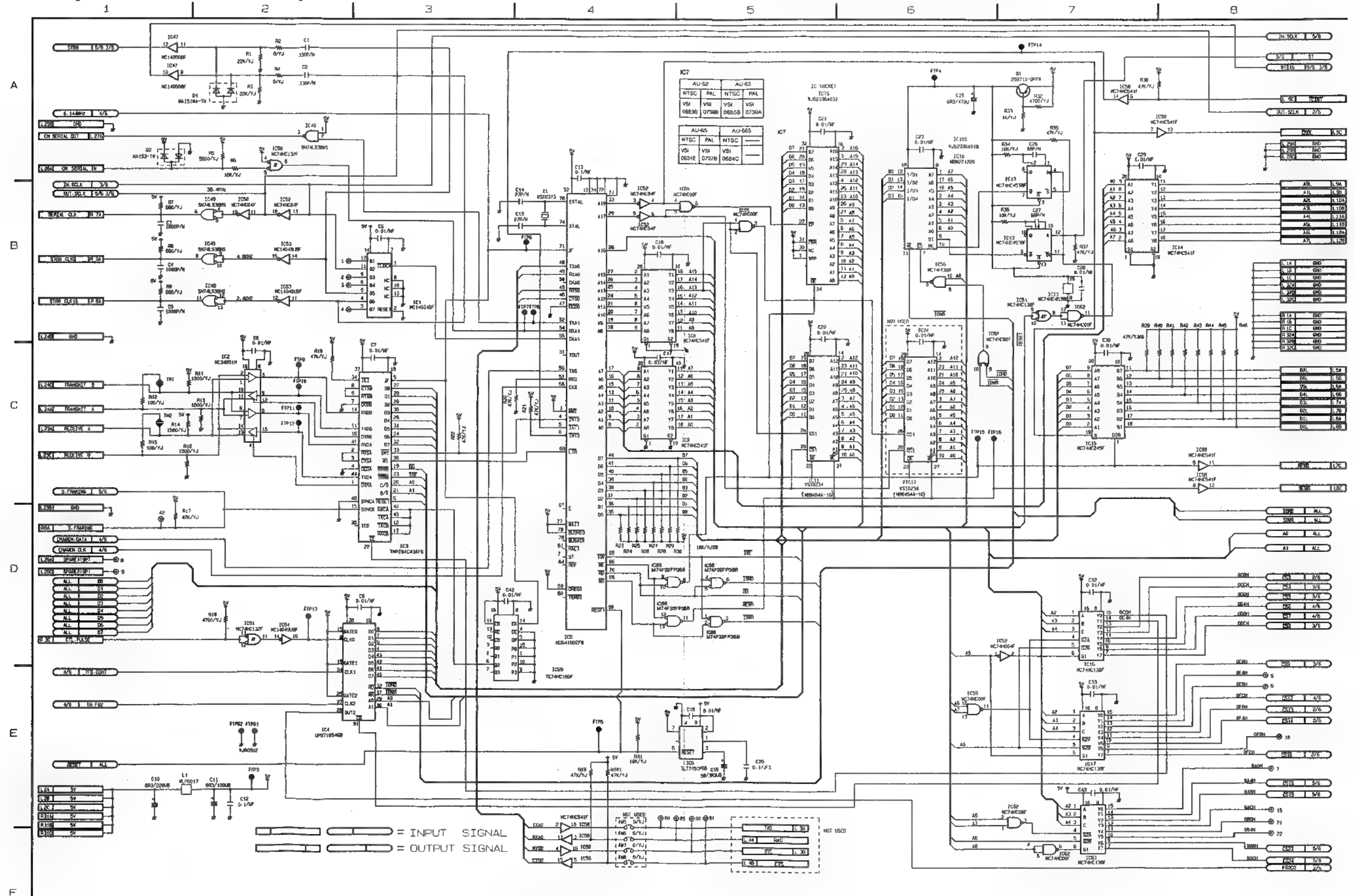




# SYSTEM CONTROL SCHEMATIC DIAGRAM

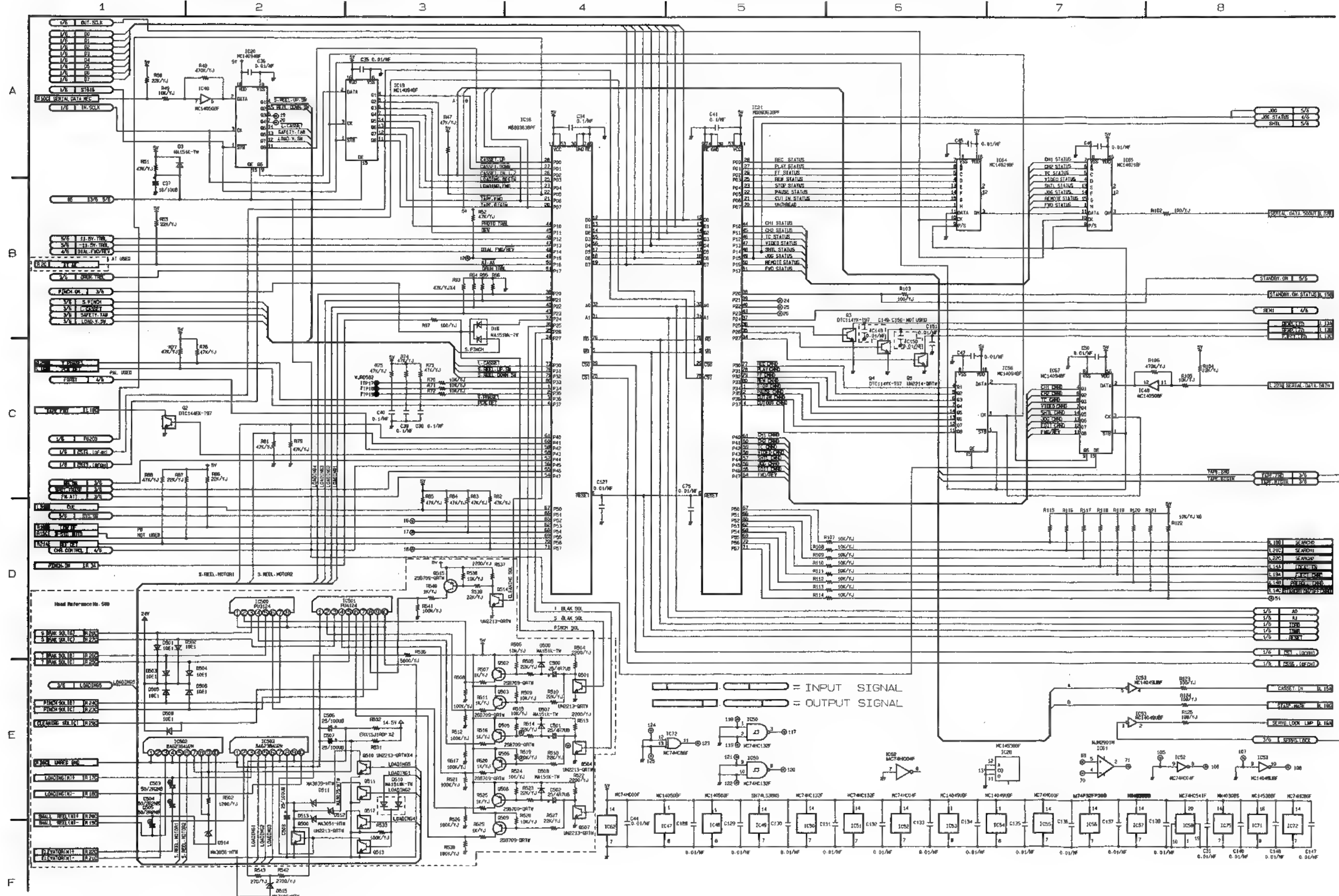
| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP86088B | VEP86088A | VEP86088D | VEP86088C |
| NTSC  | VEP86088B | VEP86088A | VEP86088D | VEP86088C |
| PAL   | VEP86088N | VEP86088E | VEP86088F | VEP86088M |

## B1 (SYSTEM CONTROL) SCHEMATIC DIAGRAM 1/6

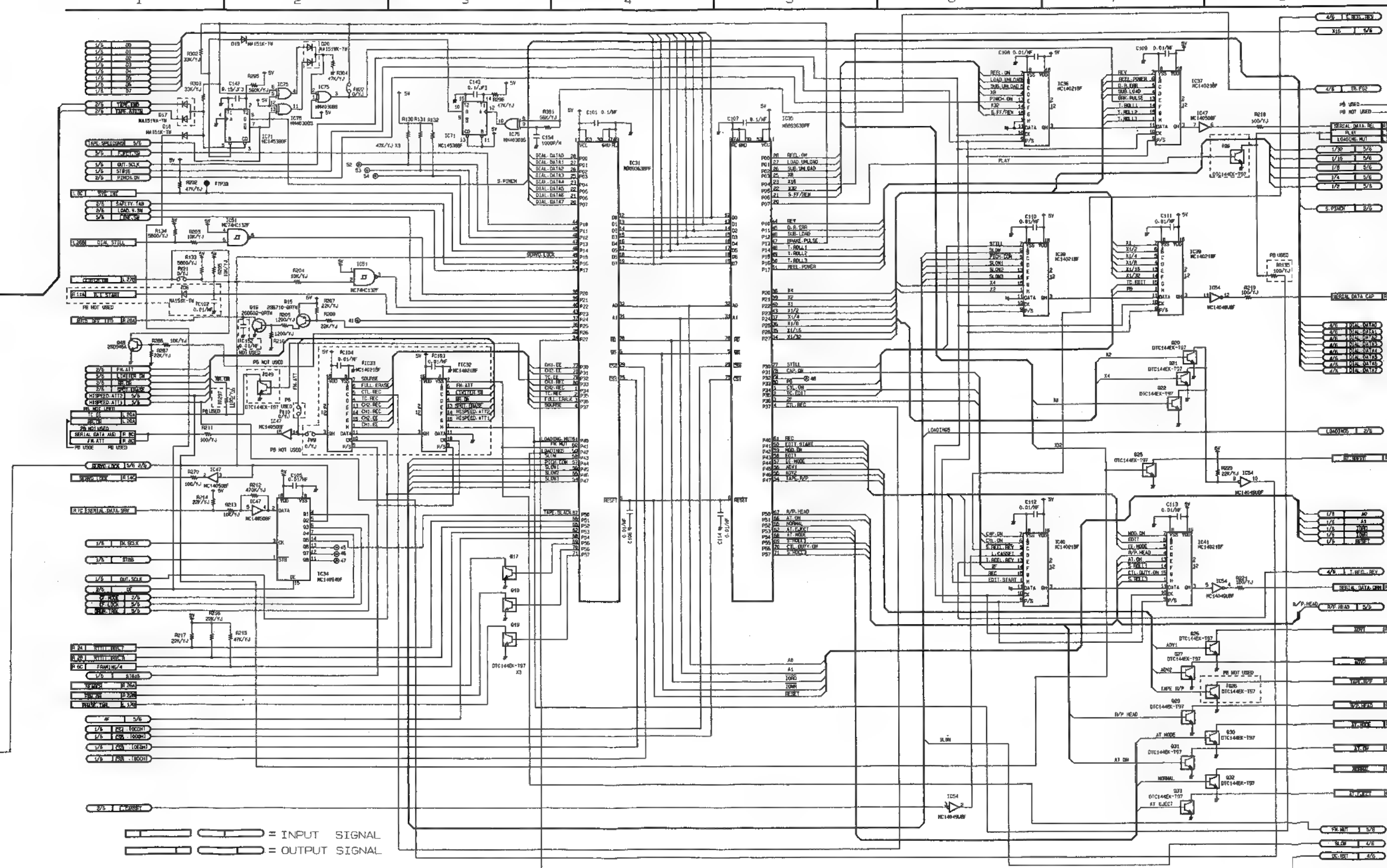


# B1 (SYSTEM CONTROL) SCHEMATIC DIAGRAM 2/6

| MODEL TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|------------|-----------|-----------|-----------|-----------|
| NTSC       | VEP86088B | VEP86088A | VEP86088D | VEP86088C |
| PAL        | VEP86088N | VEP86088E | VEP86088F | VEP86088M |



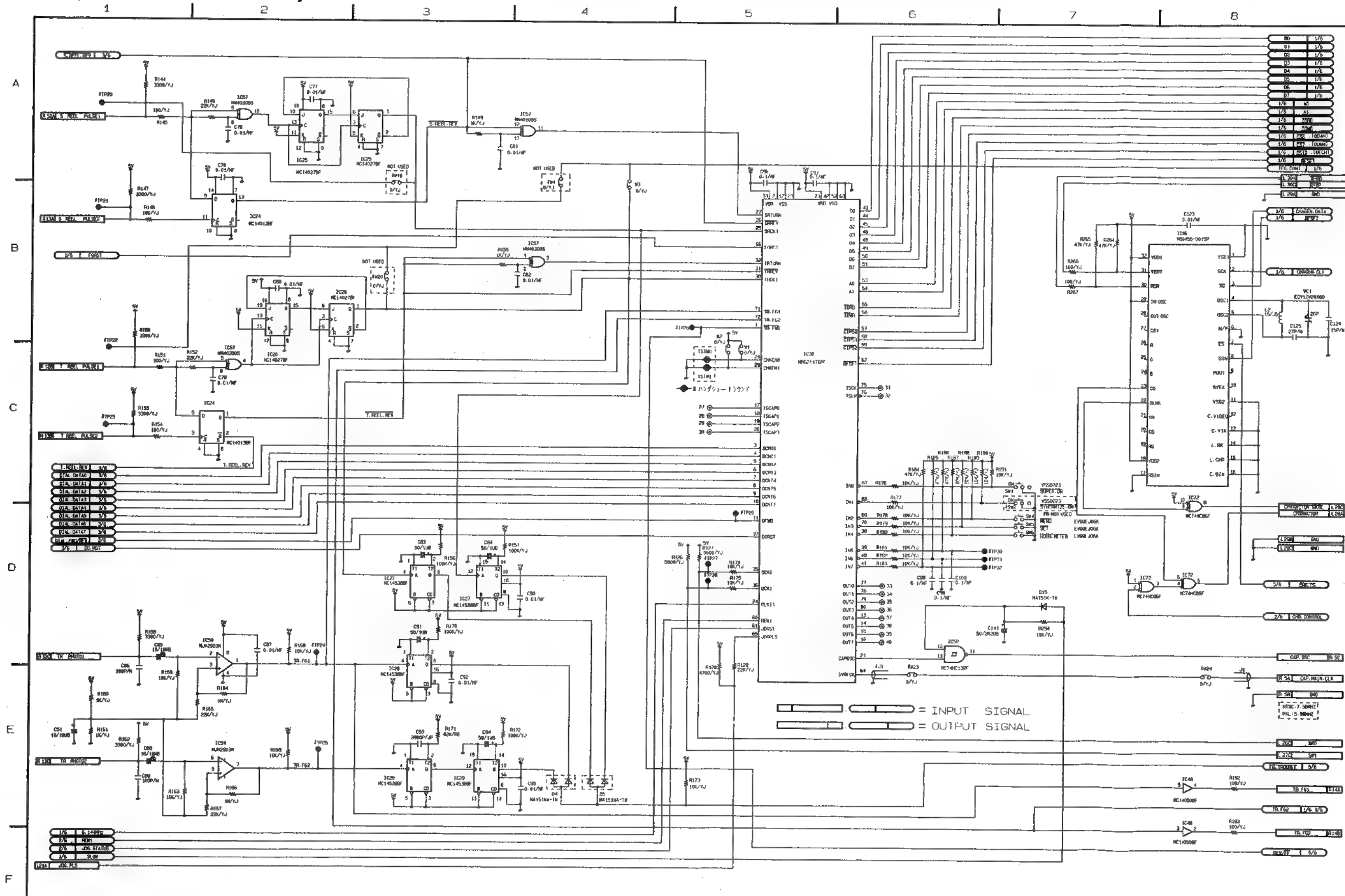
# B1 (SYSTEM CONTROL) SCHEMATIC DIAGRAM 3/6



# SYSTEM CONTROL SCHEMATIC DIAGRAM

| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP86088B | VEP86088A | VEP86088D | VEP86088C |
| PAL           | VEP86088N | VEP86088E | VEP86088F | VEP86088M |

## B1 (SYSTEM CONTROL) SCHEMATIC DIAGRAM 4/6







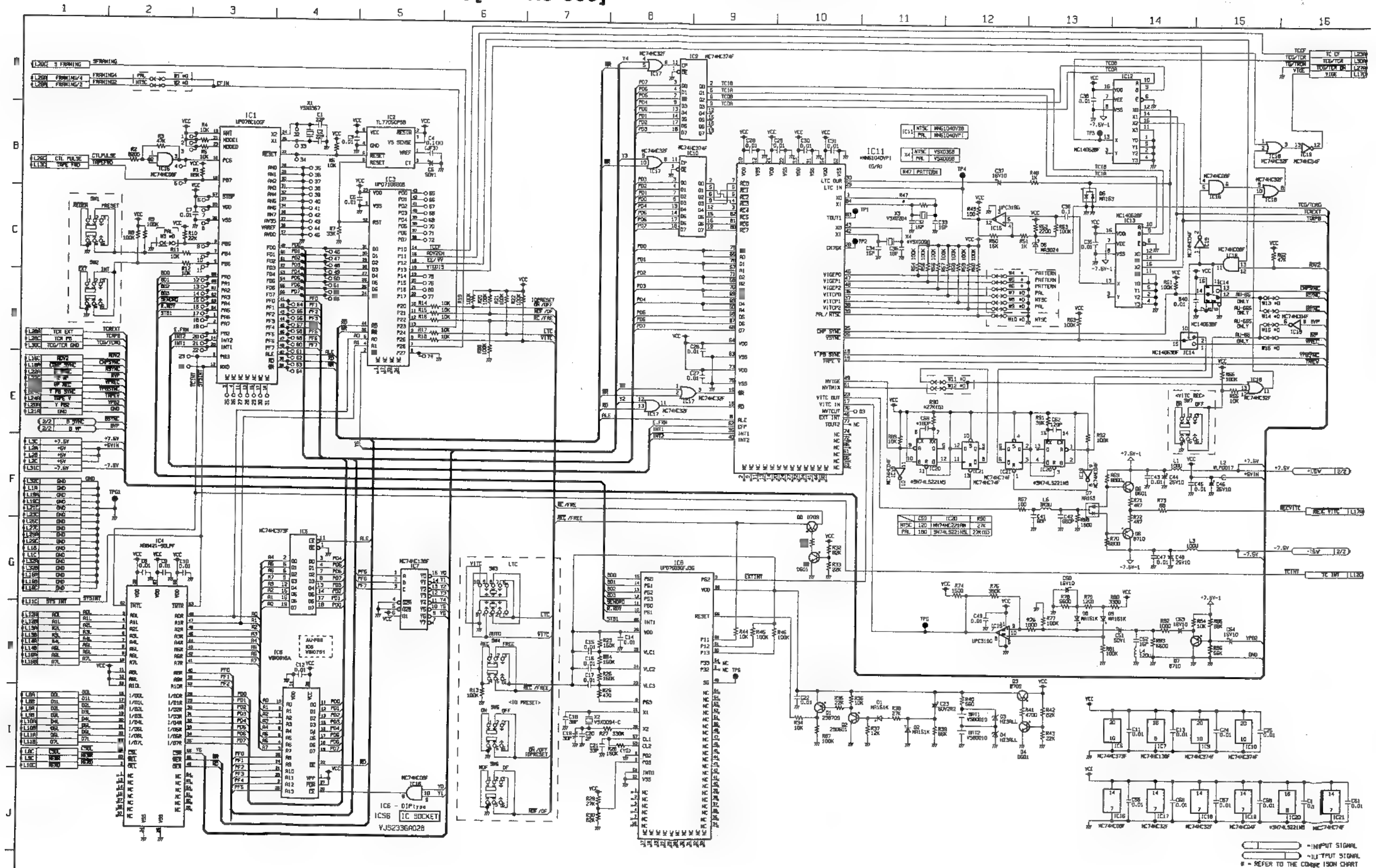
## F

| Ref. No. 500- |     |                         |
|---------------|-----|-------------------------|
| A             | 543 | 500. 501. 503. 534. 535 |
| Q             | 515 |                         |
| D             | 515 |                         |
| C             | 508 |                         |
| TC            | 503 |                         |
|               |     |                         |

TC & BB  
SCHEMATIC DIAGRAM

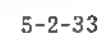
| MODEL | AU-665    | AU-65                   | AU-63 | AU-62 |
|-------|-----------|-------------------------|-------|-------|
| TYPE  | VEP86089B |                         |       |       |
| NTSC  | VEP86089B | Refer to AU-F65 Section |       |       |
| PAL   | VEP86089F |                         |       |       |

B2 (TC & BB) SCHEMATIC DIAGRAM 1/3[FOR AU-665]



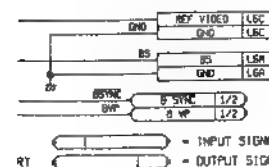
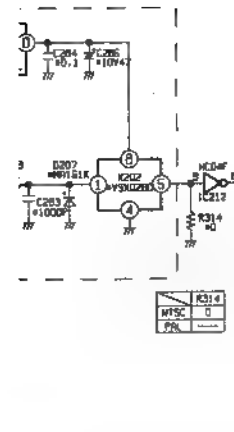
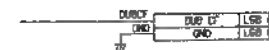
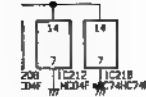
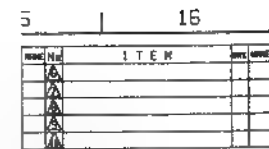
REVERSE SIDE SYSTEM CONTROL  
SCHEMATIC DIAGRAM

**B2 (TC & BB) SCHEMATIC DIAGRAM 2/3 [FOR AU-665]**





# B2 (TC & BB) SCHEMATIC DIAGRAM 3/3[FOR AU-665]



RT = INPUT SIGNAL  
RT = OUTPUT SIGNAL

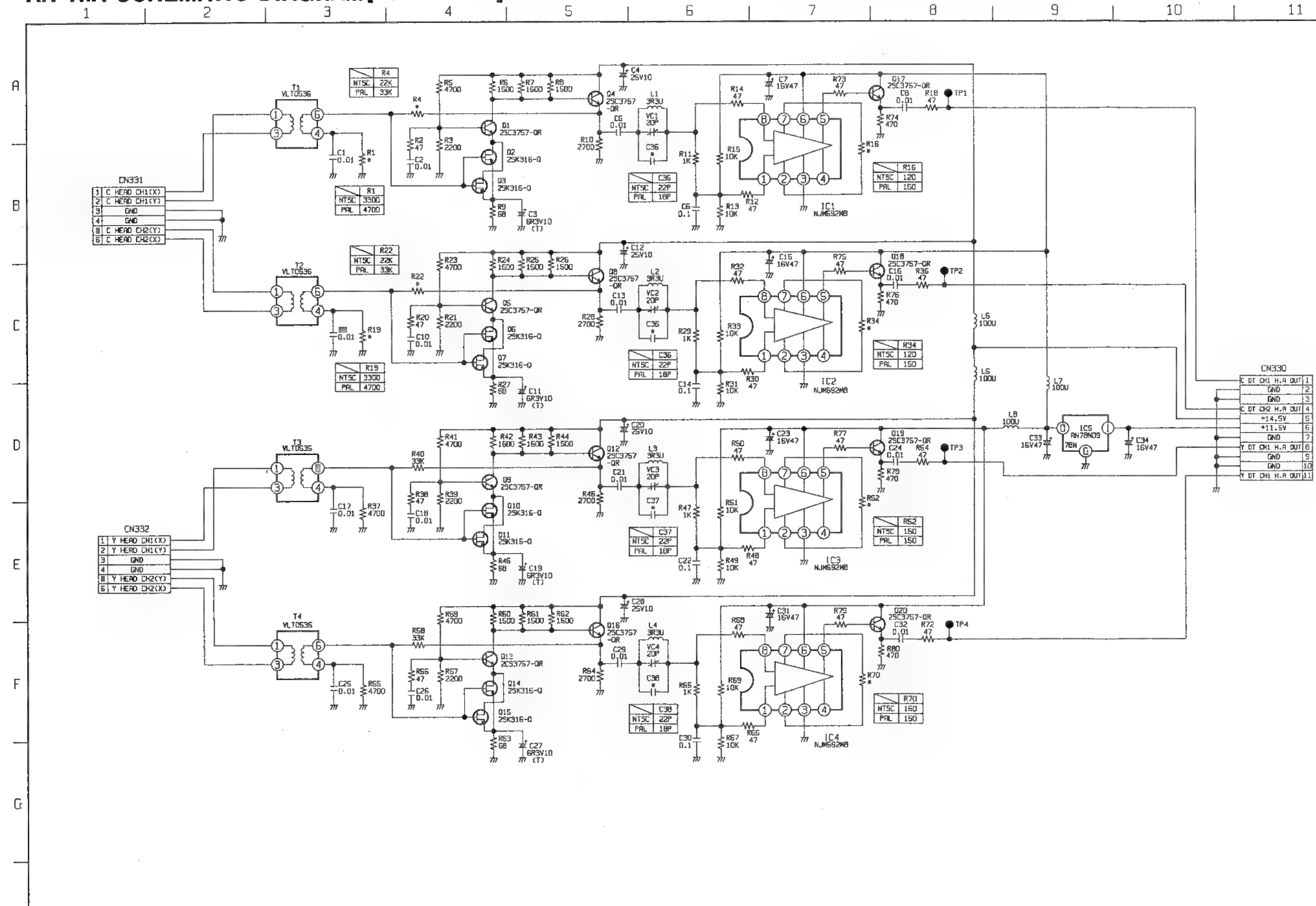
B2L  
VJP2868

| B2       |  | TCG/TCR (OPTION) |           |          |  |  |           |           |          |  |  |
|----------|--|------------------|-----------|----------|--|--|-----------|-----------|----------|--|--|
| L (LEFT) |  | A                |           |          |  |  | B         |           |          |  |  |
|          |  |                  |           |          |  |  |           |           |          |  |  |
| 1        |  | GND              |           |          |  |  |           |           |          |  |  |
| 2        |  | +5V              |           |          |  |  |           |           |          |  |  |
| 3        |  | REF VIDEO IN     | CN54-10   |          |  |  | DUB CF IN | CN54-11   |          |  |  |
| 4        |  | GND              | CN54-9,12 |          |  |  | GND       | CN54-9,12 |          |  |  |
| 5        |  | B5               | CN54-13   |          |  |  | DUB CF    | CN60-13   |          |  |  |
| 6        |  | GND              |           |          |  |  | GND       |           |          |  |  |
| 7        |  | REF SCH          | B1-R21B   | CN50-10A |  |  | REF DET   | B1-R21A   | CN50-11B |  |  |
| 8        |  | D0L              | B1-L5A    |          |  |  | D1L       | B1-L5B    |          |  |  |
| 9        |  | D2L              | B1-L6A    |          |  |  | D3L       | B1-L6B    |          |  |  |
| 10       |  | D4L              | B1-L7A    |          |  |  | D5L       | B1-L7B    |          |  |  |
| 11       |  | D6L              | B1-L8A    |          |  |  | D7L       | B1-L8B    |          |  |  |
| 12       |  | A0L              | B1-L9A    |          |  |  | A1L       | B1-L9B    |          |  |  |
| 13       |  | A2L              | B1-L10A   |          |  |  | A3L       | B1-L10B   |          |  |  |
| 14       |  | A4L              | B1-L11A   |          |  |  | A5L       | B1-L11B   |          |  |  |
| 15       |  | A6L              | B1-L12A   |          |  |  | A7L       | B1-L12B   |          |  |  |
| 16       |  | GND              |           |          |  |  | GND       |           |          |  |  |
| 17       |  | REC VITC         | CN62-1    |          |  |  |           |           |          |  |  |
| 18       |  | COMP SYNC        | CN62-3    |          |  |  |           |           |          |  |  |
| 19       |  | GND              | CN62-2,4  |          |  |  |           |           |          |  |  |
| 20       |  | Y PB 2           | CN62-9    |          |  |  |           |           |          |  |  |
| 21       |  | GND              | CN62-10   |          |  |  |           |           |          |  |  |
| 22       |  | R SYNC           | CN60-1    |          |  |  |           |           |          |  |  |
| 23       |  | TC CF            | CN60-9    |          |  |  |           |           |          |  |  |
| 24       |  | TAPE V           | CN60-7    |          |  |  |           |           |          |  |  |
| 25       |  | FRAMING/4        | B1-R6C    | CN50-29A |  |  |           |           |          |  |  |
| 26       |  | FRAMING/2        | B1-R6B    | CN50-30B |  |  |           |           |          |  |  |
| 27       |  | TCG/TCR ON       | CN50-32A  |          |  |  |           |           |          |  |  |
| 28       |  | TCR EXT          | CN61-1    |          |  |  |           |           |          |  |  |
| 29       |  | GND              |           |          |  |  |           |           |          |  |  |
| 30       |  | TCG/TCR          | CN61-4    |          |  |  |           |           |          |  |  |
| 31       |  |                  |           |          |  |  |           |           |          |  |  |
| 32       |  | GND              |           |          |  |  |           |           |          |  |  |

AT HA SCHEMATIC DIAGRA  
AT POWER SCHEMATIC DIAGRAM

| MODEL | AU-665    | AU-65    | AU-63    | AU-62    |
|-------|-----------|----------|----------|----------|
| TYPE  | VEP85018A | Not Used | Not Used | Not Used |
| NTSC  | VEP85018A | Not Used | Not Used | Not Used |
| PAL   | VEP85018B | Not Used | Not Used | Not Used |

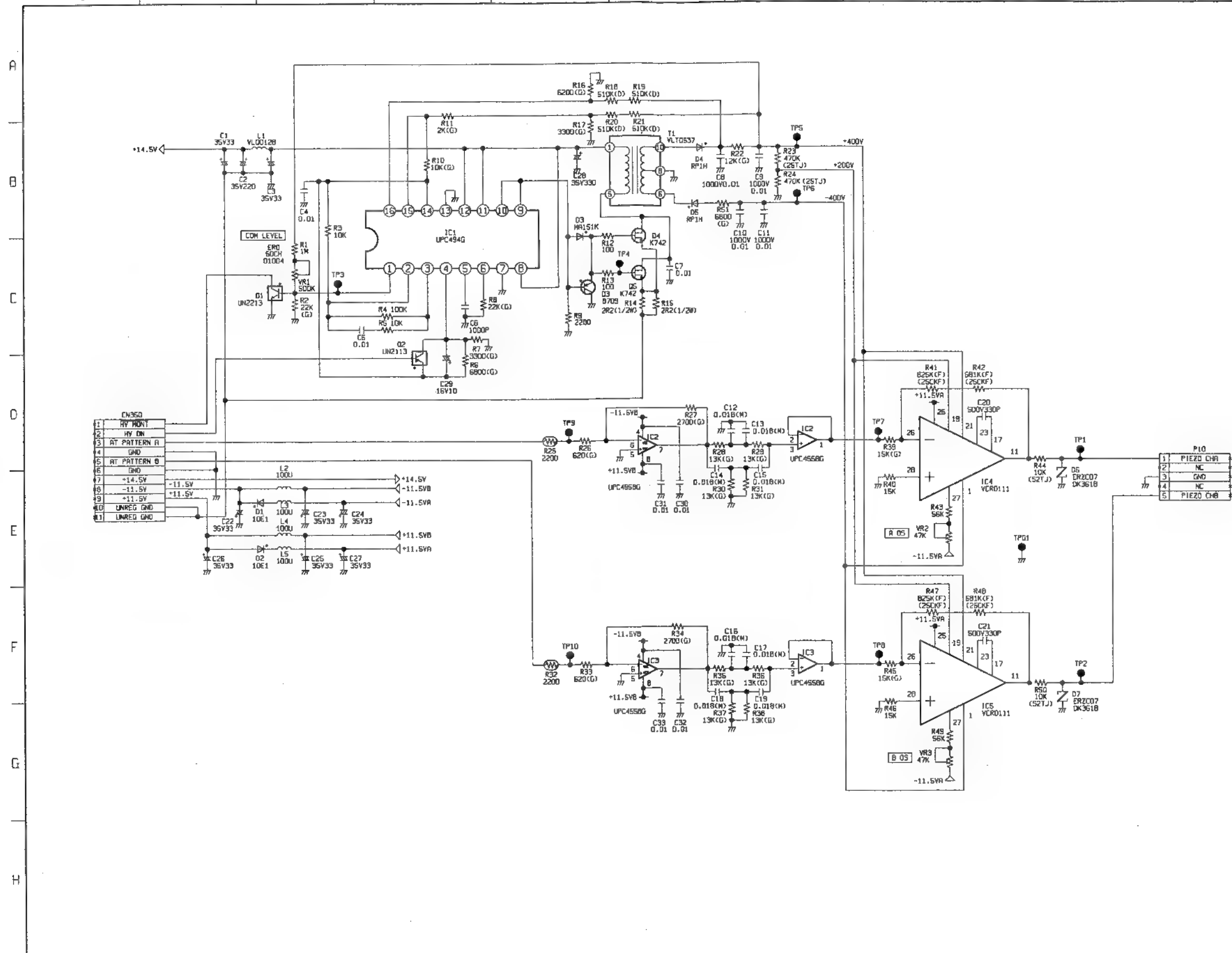
A.T H.A SCHEMATIC DIAGRAM[FOR AU-665]



REVERSE SIDE TC & BB  
SCHEMATIC DIAGRAM

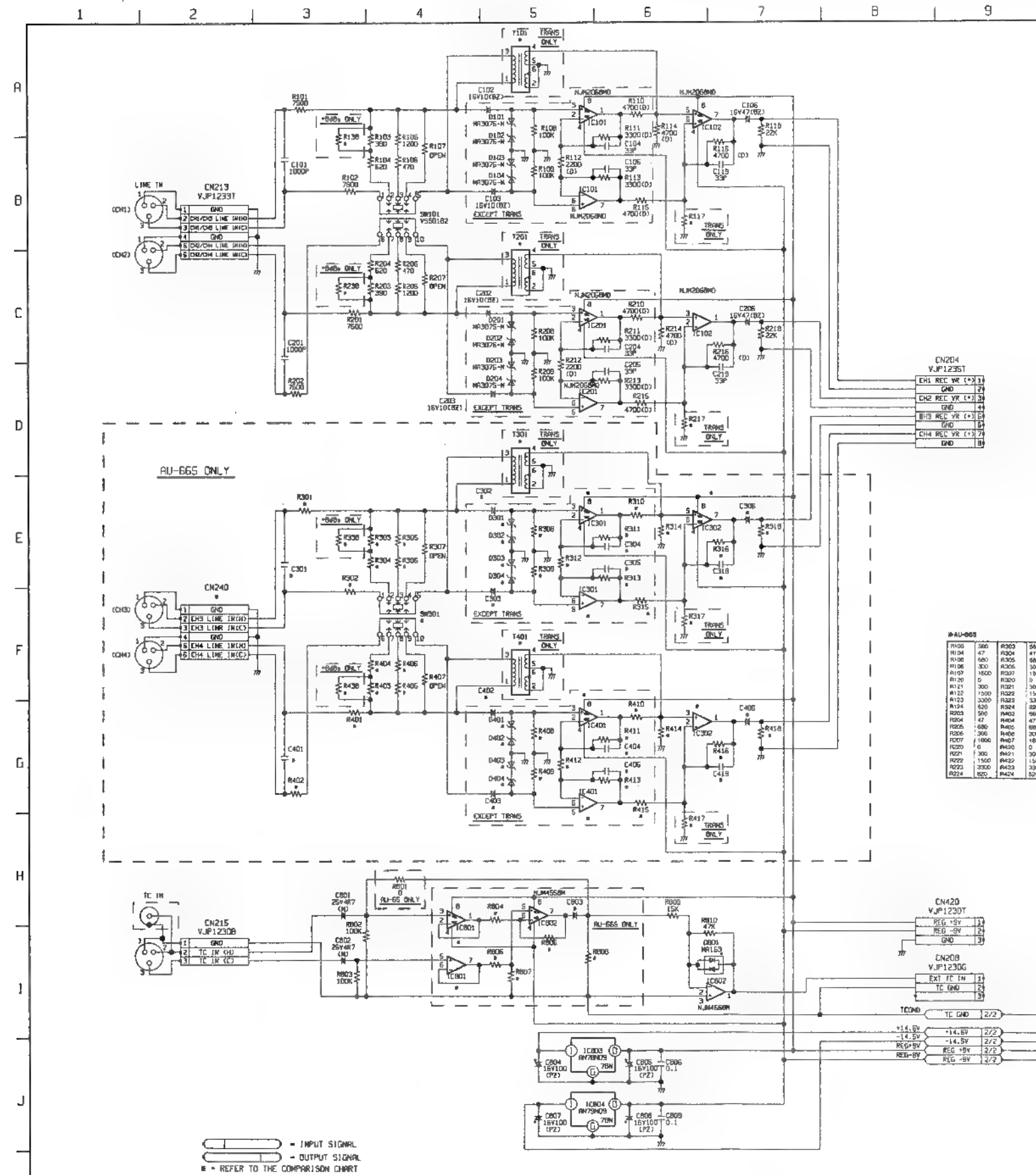
# AT POWER SCHEMATIC DIAGRAM[FOR AU-665,AU-63]

| MODEL | AU-665    | AU-65    | AU-63     | AU-62    |
|-------|-----------|----------|-----------|----------|
| TYPE  | VEP82062A | Not Used | VEP82062A | Not Used |
| NTSC  | VEP82062A | Not Used | VEP82062A | Not Used |
| PAL   | VEP82062A | Not Used | VEP82062A | Not Used |

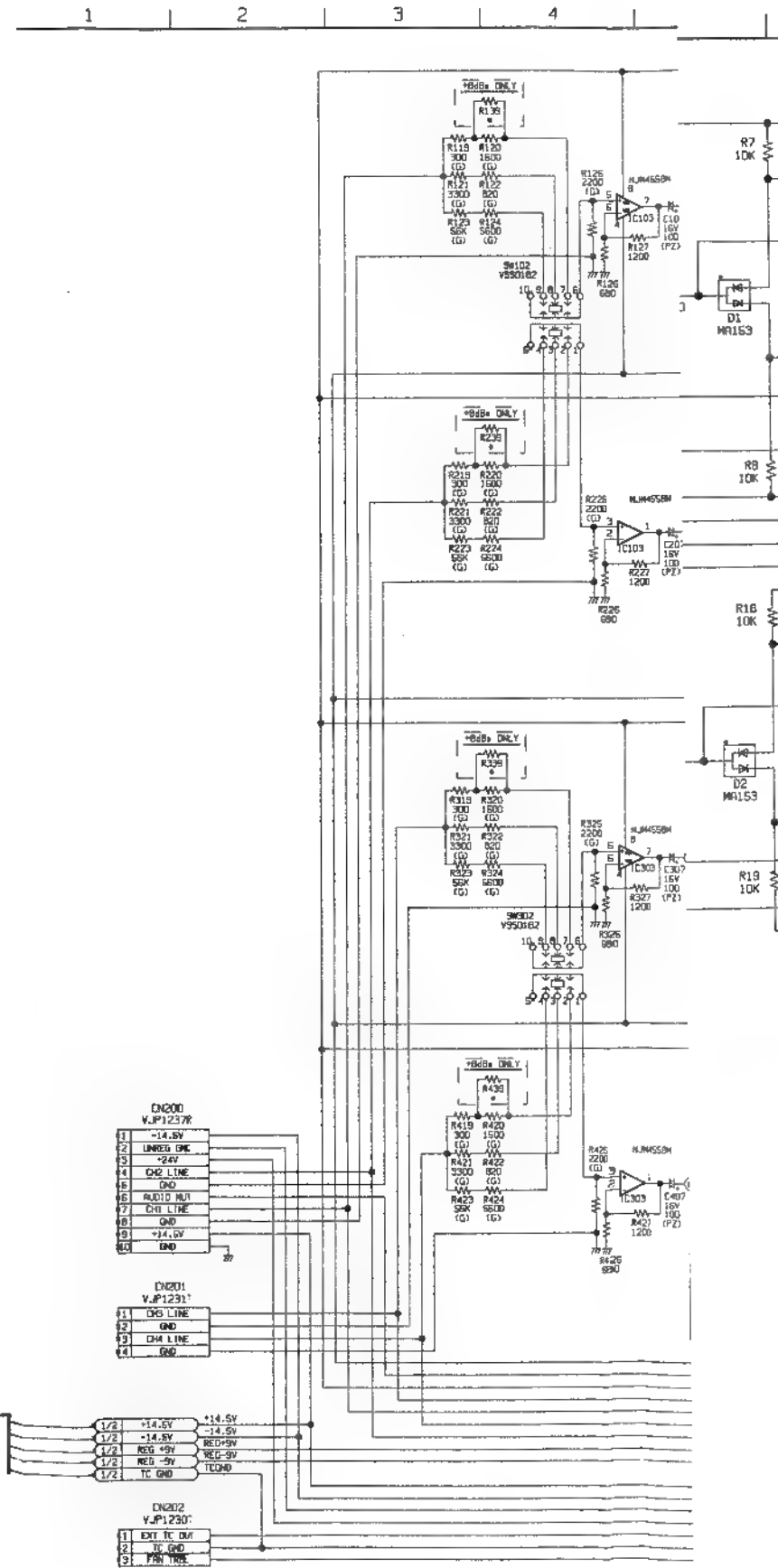


| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  |           |           |           |           |
| NTSC  | VEP84094B | VEP84094A | VEP84094C | VEP84094C |
| PAL   | VEP84094D | VEP84094A | VEP84094C | VEP84094C |

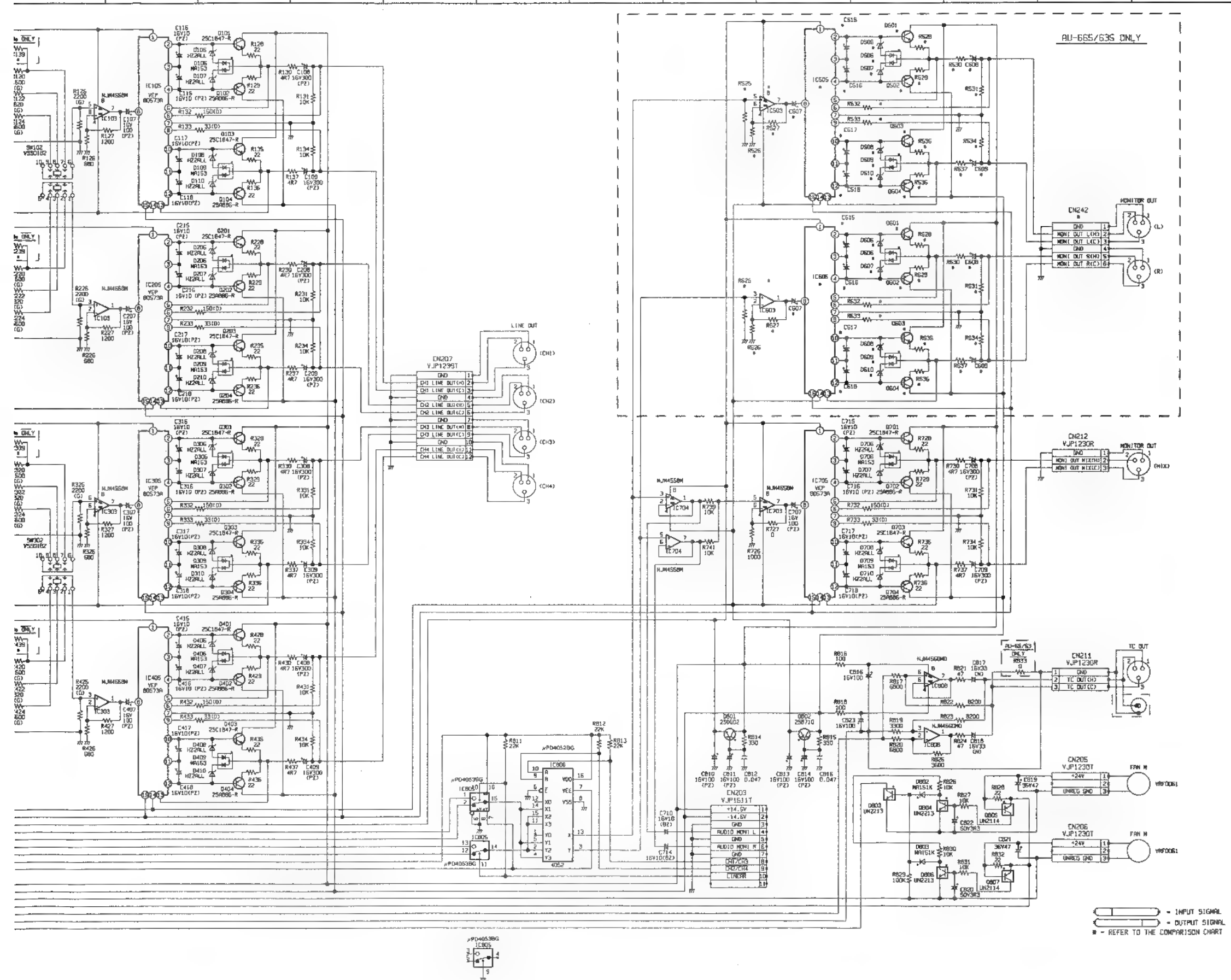
## AUDIO I/O SCHEMATIC DIAGRAM 1/2



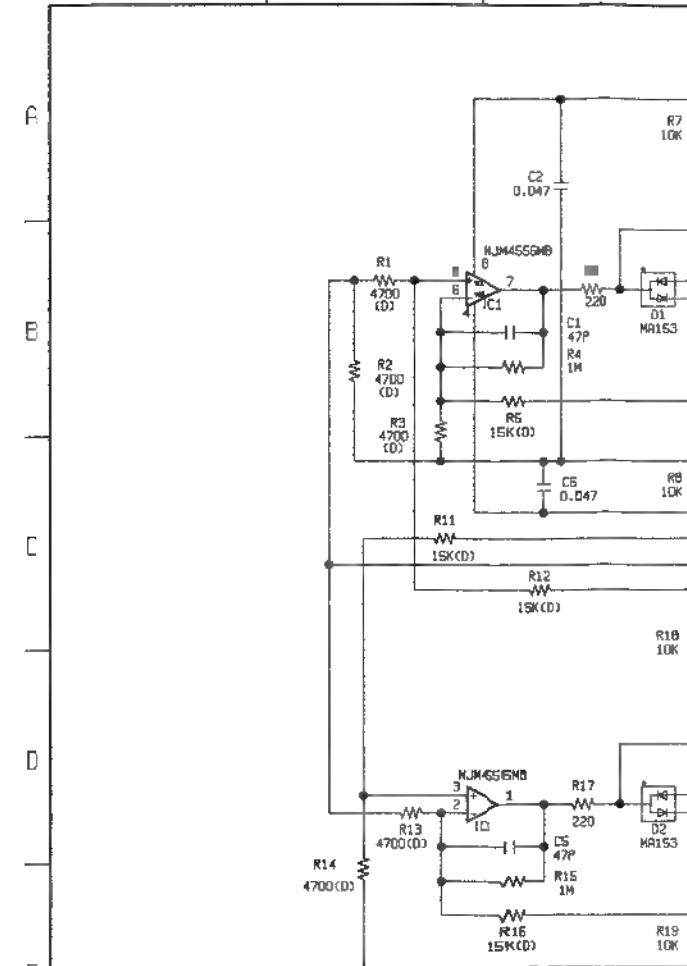
## AUDIO I/O SCHEMATIC DIAGRAM 2/2



|   |   |   |   |   |   |    |    |    |    |    |    |    |
|---|---|---|---|---|---|----|----|----|----|----|----|----|
| 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|----|----|----|----|----|----|----|

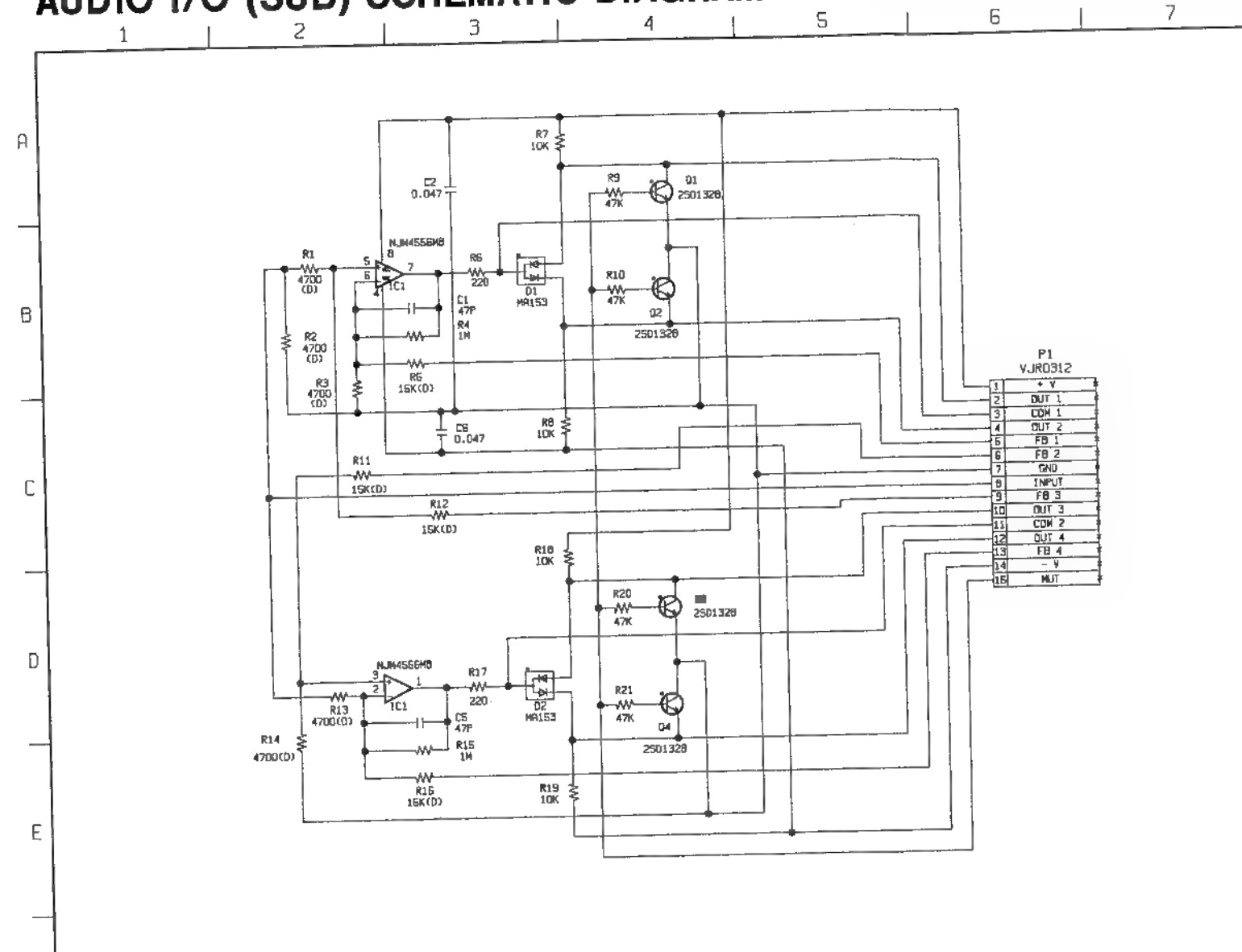
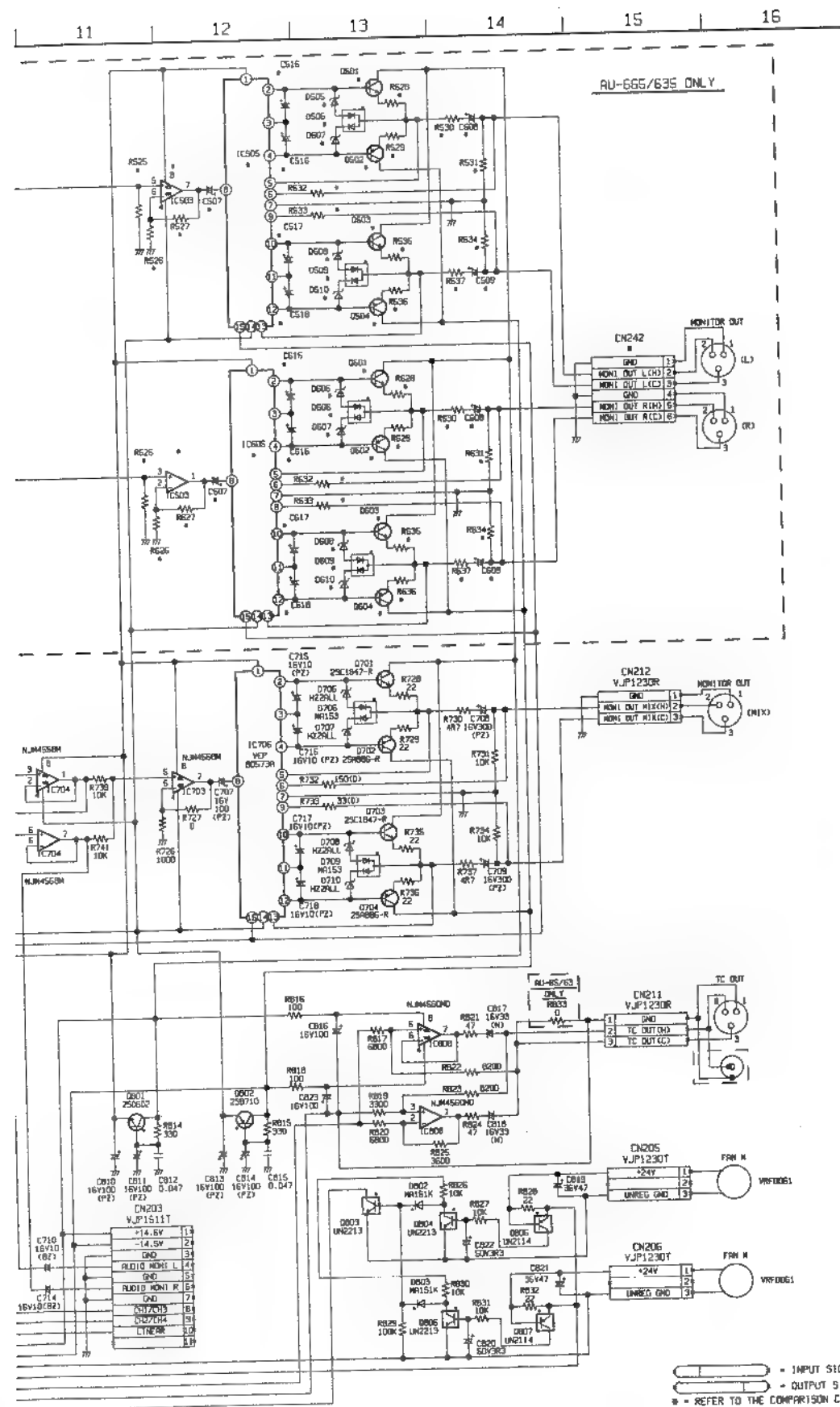


|   |  |   |  |   |
|---|--|---|--|---|
| 1 |  | 2 |  | 3 |
|---|--|---|--|---|



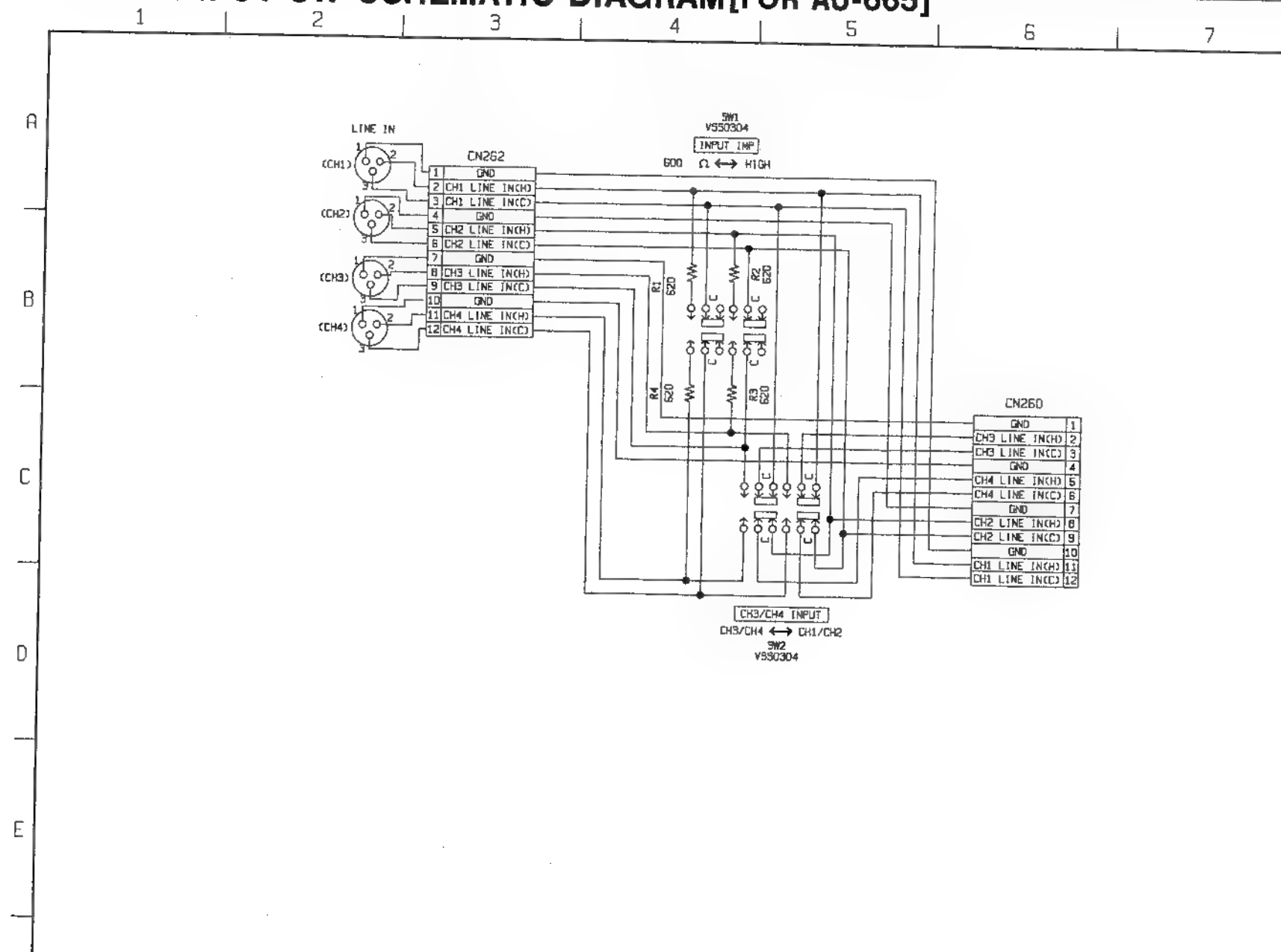
| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP80573A | VEP80573A | VEP80573A | VEP80573A |
| NTSC  | VEP80573A | VEP80573A | VEP80573A | VEP80573A |
| PAL   | VEP80573A | VEP80573A | VEP80573A | VEP80573A |

# AUDIO I/O (SUB) SCHEMATIC DIAGRAM

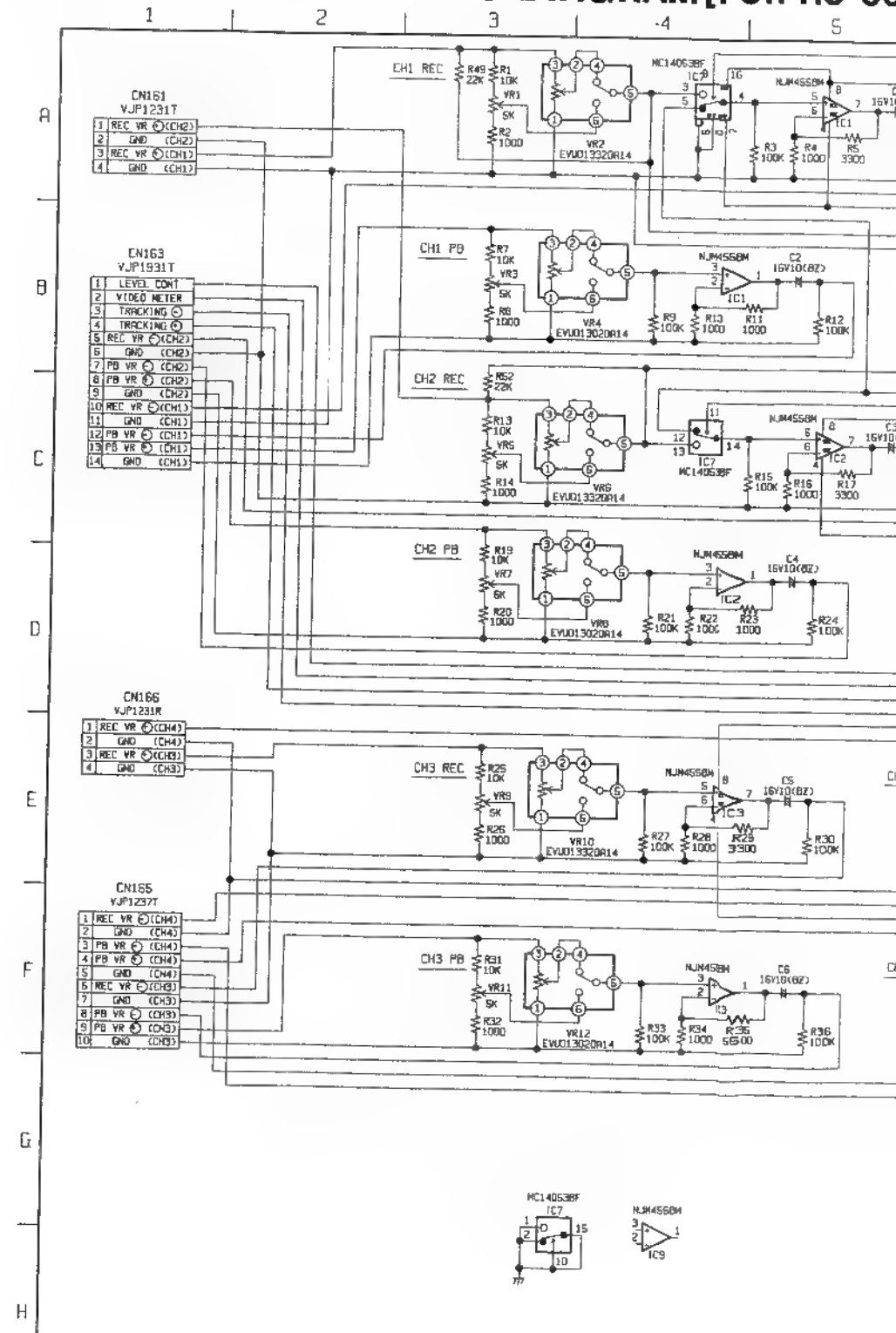


# AUDIO INPUT SW SCHEMATIC DIAGRAM[FOR AU-665]

| MODEL | AU-665    | AU-65    | AU-63    | AU-62    |
|-------|-----------|----------|----------|----------|
| TYPE  | VEP84103B | Not Used | Not Used | Not Used |
| NTSC  | VEP84103A | Not Used | Not Used | Not Used |
| PAL   |           |          |          |          |

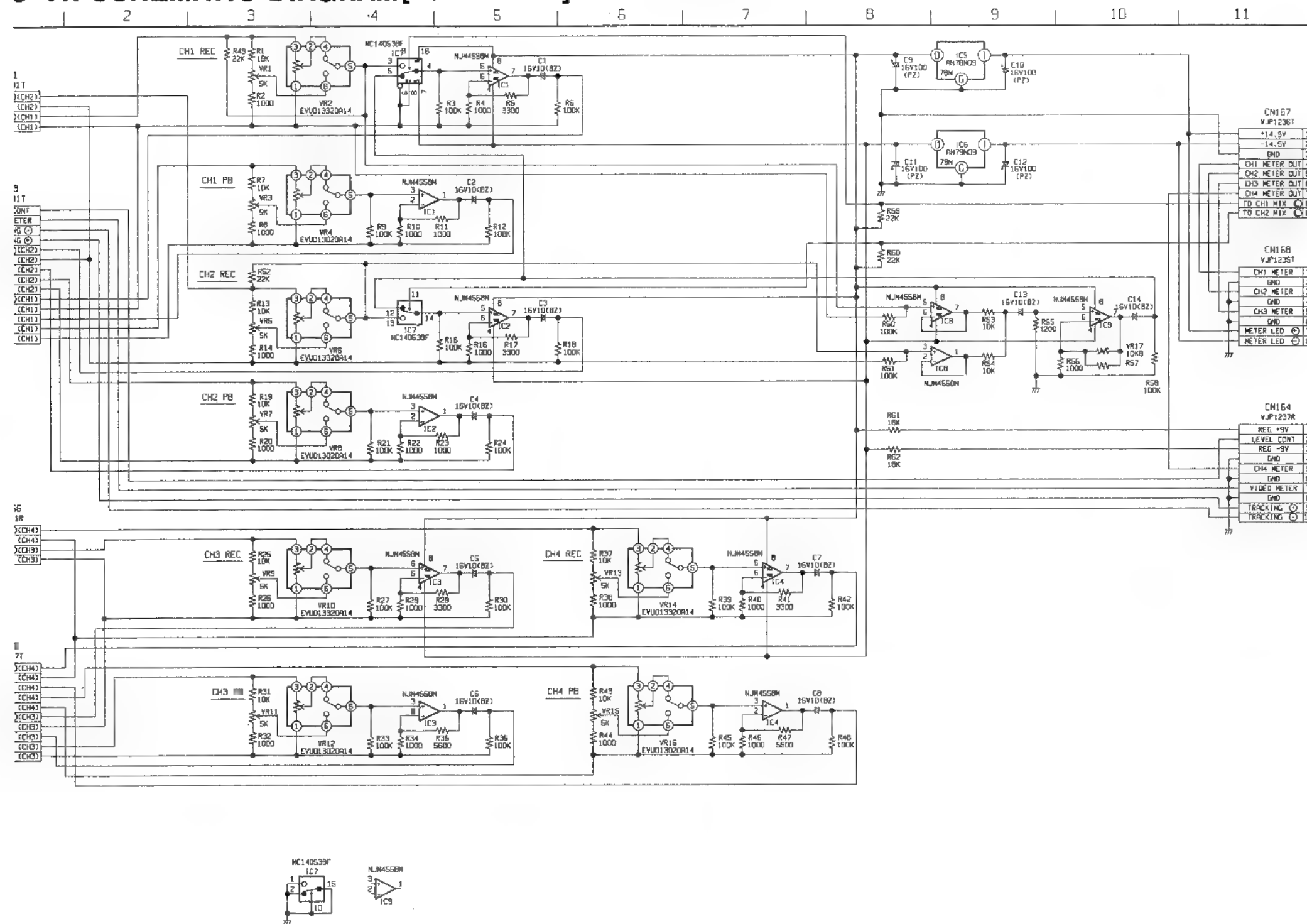


# AUDIO VR SCHEMATIC DIAGRAM[FOR AU-665]

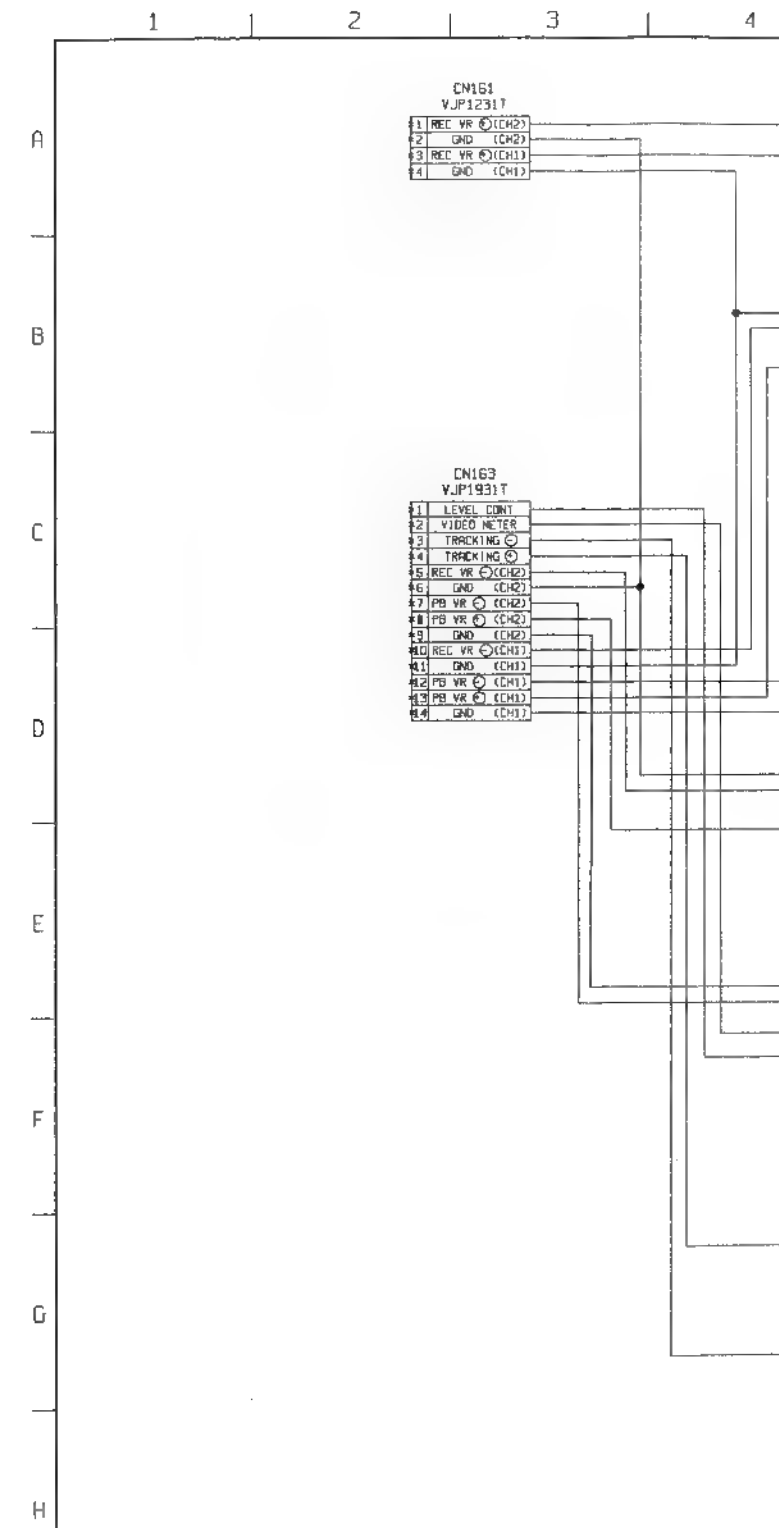


# VR SCHEMATIC DIAGRAM[FOR AU-665]

| MODEL | AU-665    | AU-65         | AU-63 | AU-62 |
|-------|-----------|---------------|-------|-------|
| TYPE  | VEP84102A |               |       |       |
| PAL   | VEP84102A | See Next Page |       |       |



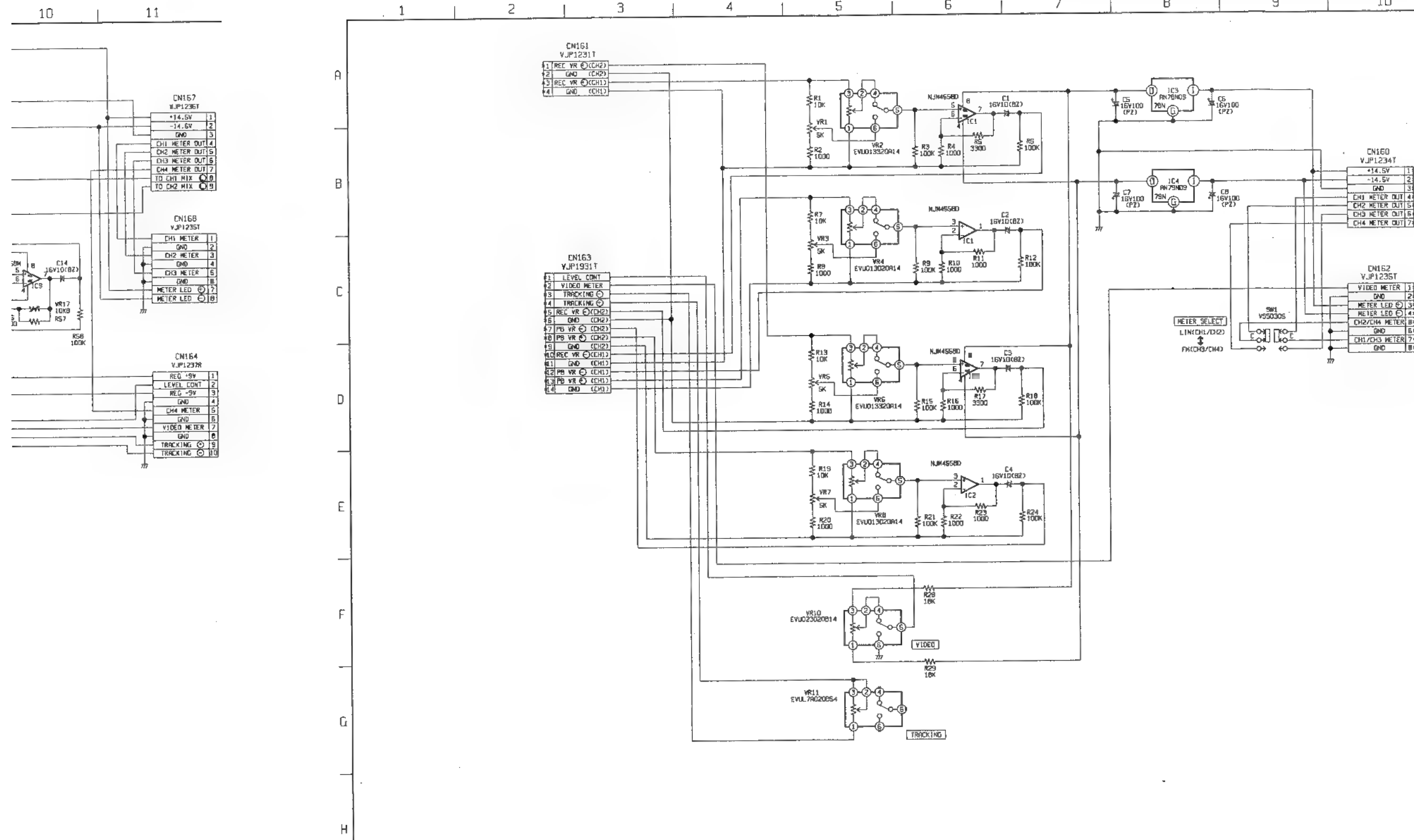
# AUDIO VR SCHEMATIC DIAGRAM





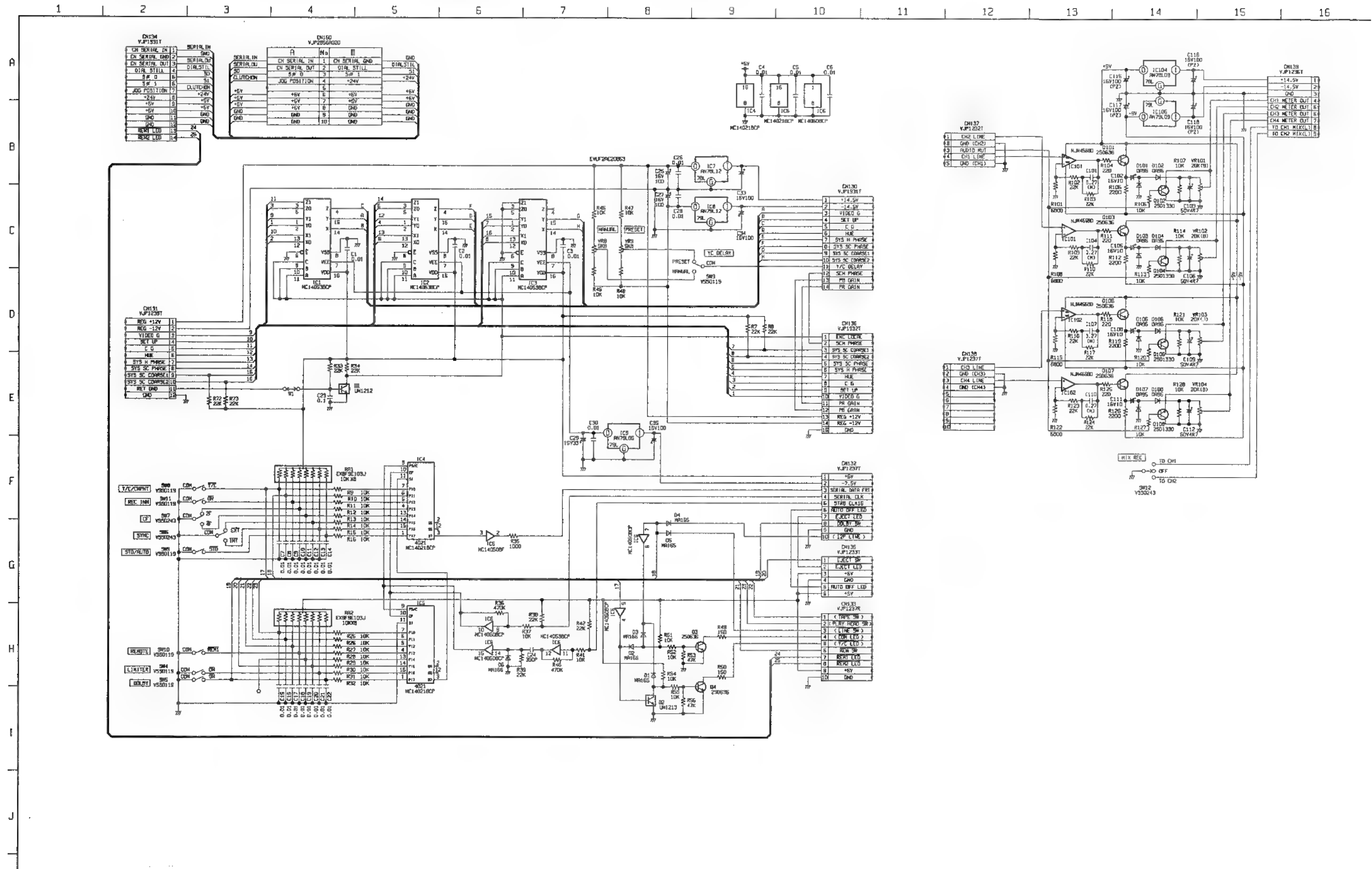
| MODEL | AU-665         | AU-65     | AU-63     | AU-62     |
|-------|----------------|-----------|-----------|-----------|
| TYPE  |                |           |           |           |
| NTSC  | See Front Page | VEP84101A | VEP84101C | VEP84101B |
| PAL   | See Front Page | VEP84101A | VEP84101C | VEP84101B |

# AUDIO VR SCHEMATIC DIAGRAM[FOR AU-65,AU-63,AU-62]



| MODEL | AU-665 | AU-65     | AU-63         | AU-62 |
|-------|--------|-----------|---------------|-------|
| TYPE  | NTSC   | VEP80612A | See Next Page |       |
| PAL   |        |           |               |       |

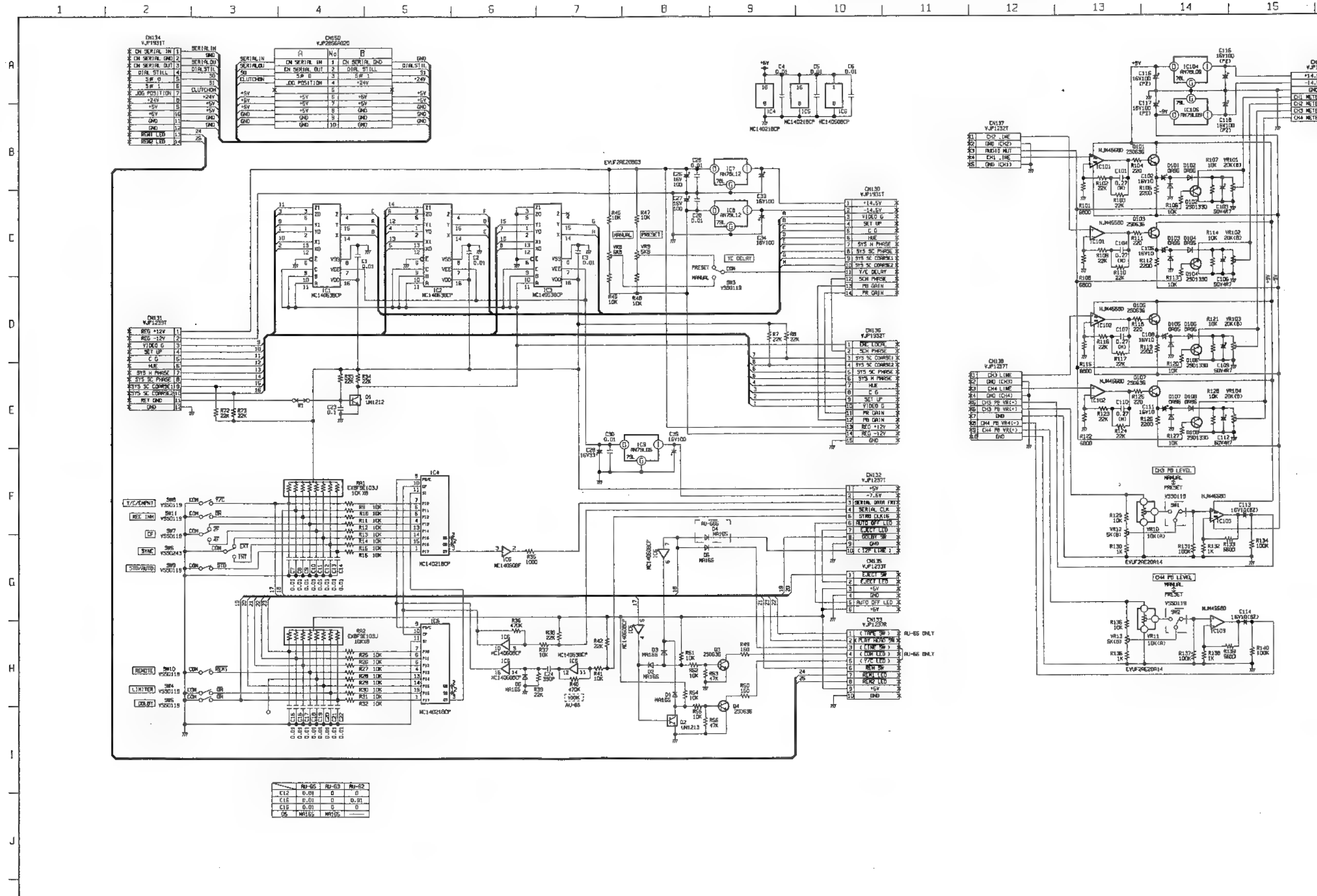
# FRONT INTERFACE SCHEMATIC DIAGRAM[FOR AU-665]



# FRONT INTERFACE SCHEMATIC DIAGRAM[FOR AU-65,AU-63,AU-62]

| MODEL | AU-665         | AU-65     | AU-63     | AU-62     |
|-------|----------------|-----------|-----------|-----------|
| TYPE  | See Front Page | VEP80553A | VEP80553C | VEP80553B |
| NTSC  | See Front Page | VEP80631A | VEP80631B | VEP80631C |
| PAL   | See Front Page |           |           |           |

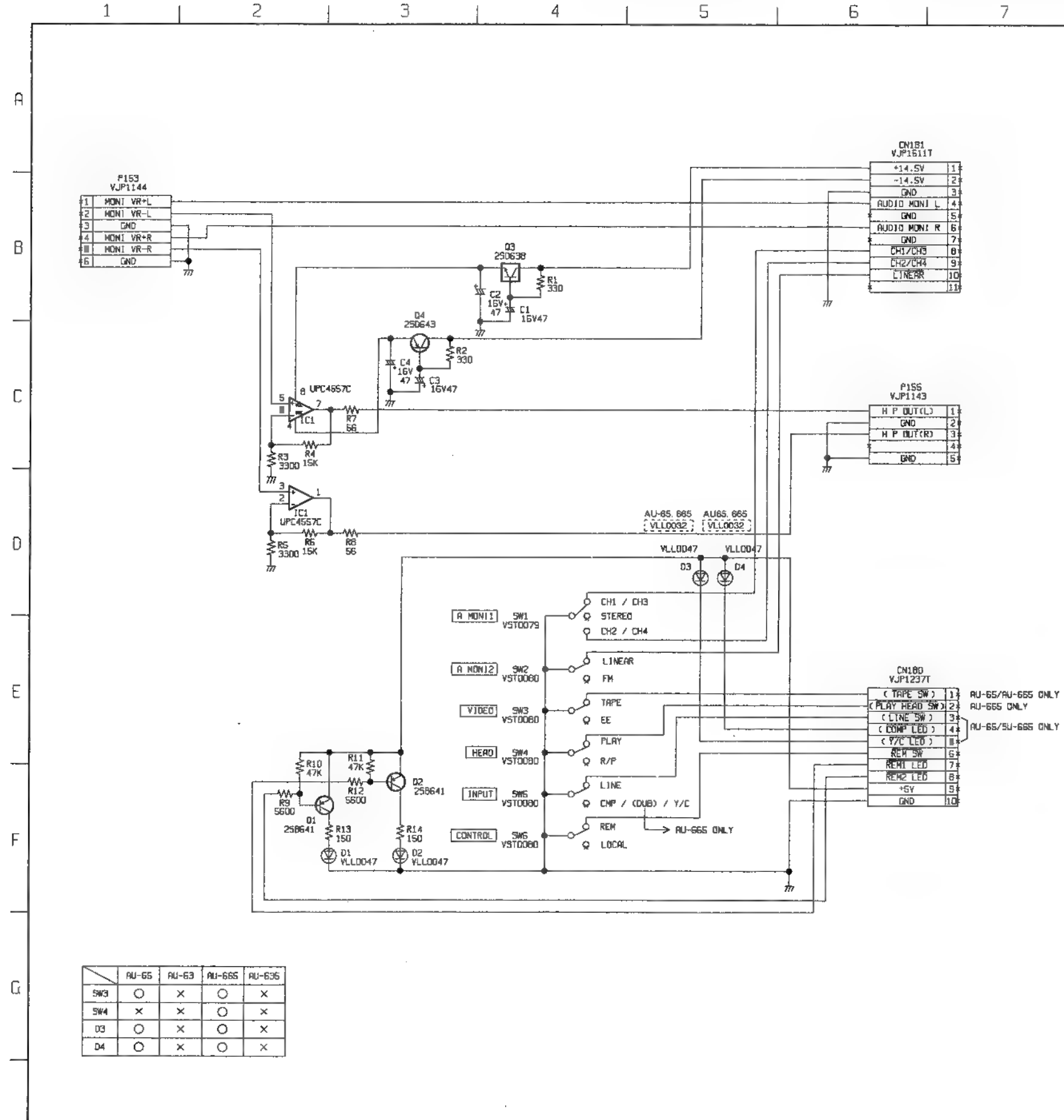
| CH134 | V.F.1232T     |
|-------|---------------|
| 1     | +14.5V        |
| 2     | -14.5V        |
| 3     | GND           |
| 4     | CH1 METER OUT |
| 5     | CH2 METER OUT |
| 6     | CH3 METER OUT |
| 7     | CH4 METER OUT |
| 8     | TO CH1 METER  |
| 9     | TO CH2 METER  |



FRONT MODE SELECT SCHEMATIC DIAGRAM  
FRONT PANEL A SCHEMATIC DIAGRAM

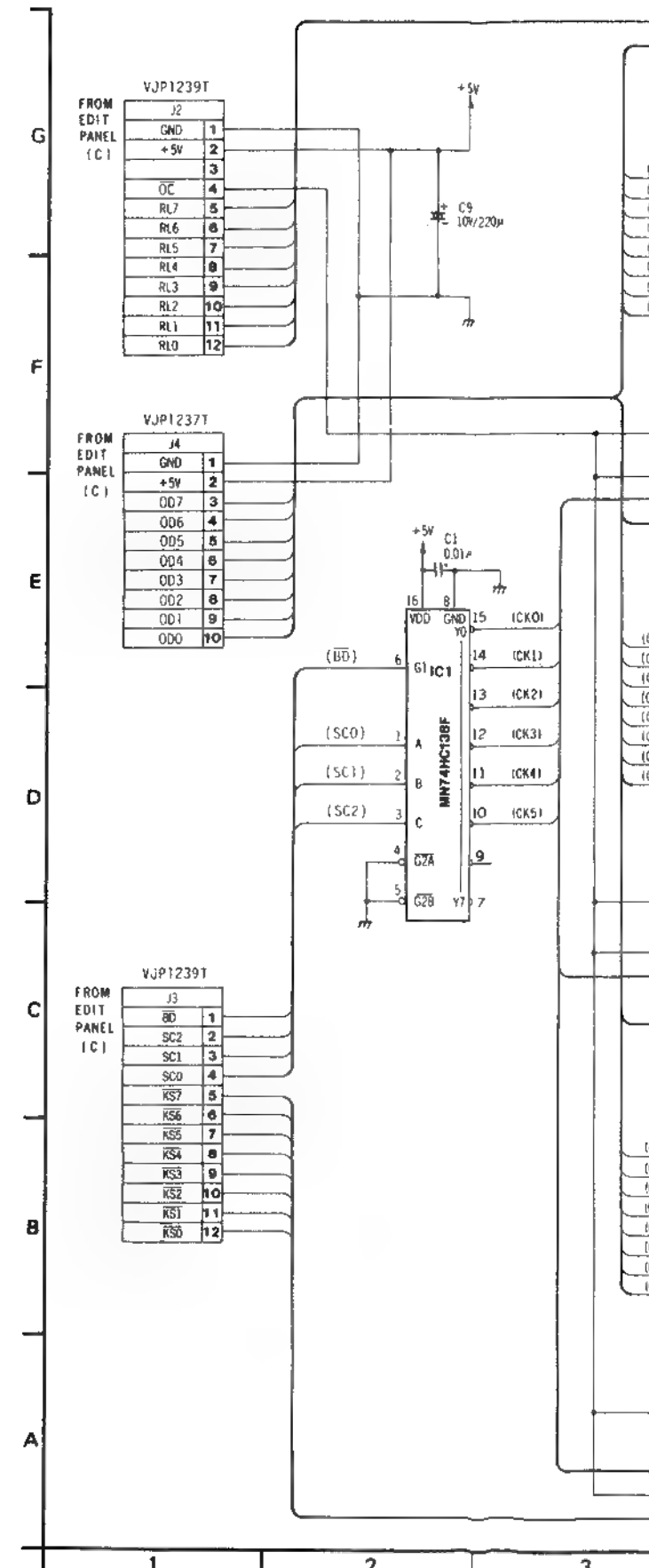
| MODEL TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|------------|-----------|-----------|-----------|-----------|
| NTSC       | VEP80559B | VEP80559A | VEP80559D | VEP80559C |
| PAL        | VEP80559B | VEP80559A | VEP80559D | VEP80559C |

# FRONT MODE SELECT SCHEMATIC DIAGRAM



REVERSE SIDE FRONT INTERFACE SCHEMATIC DIAGRAM

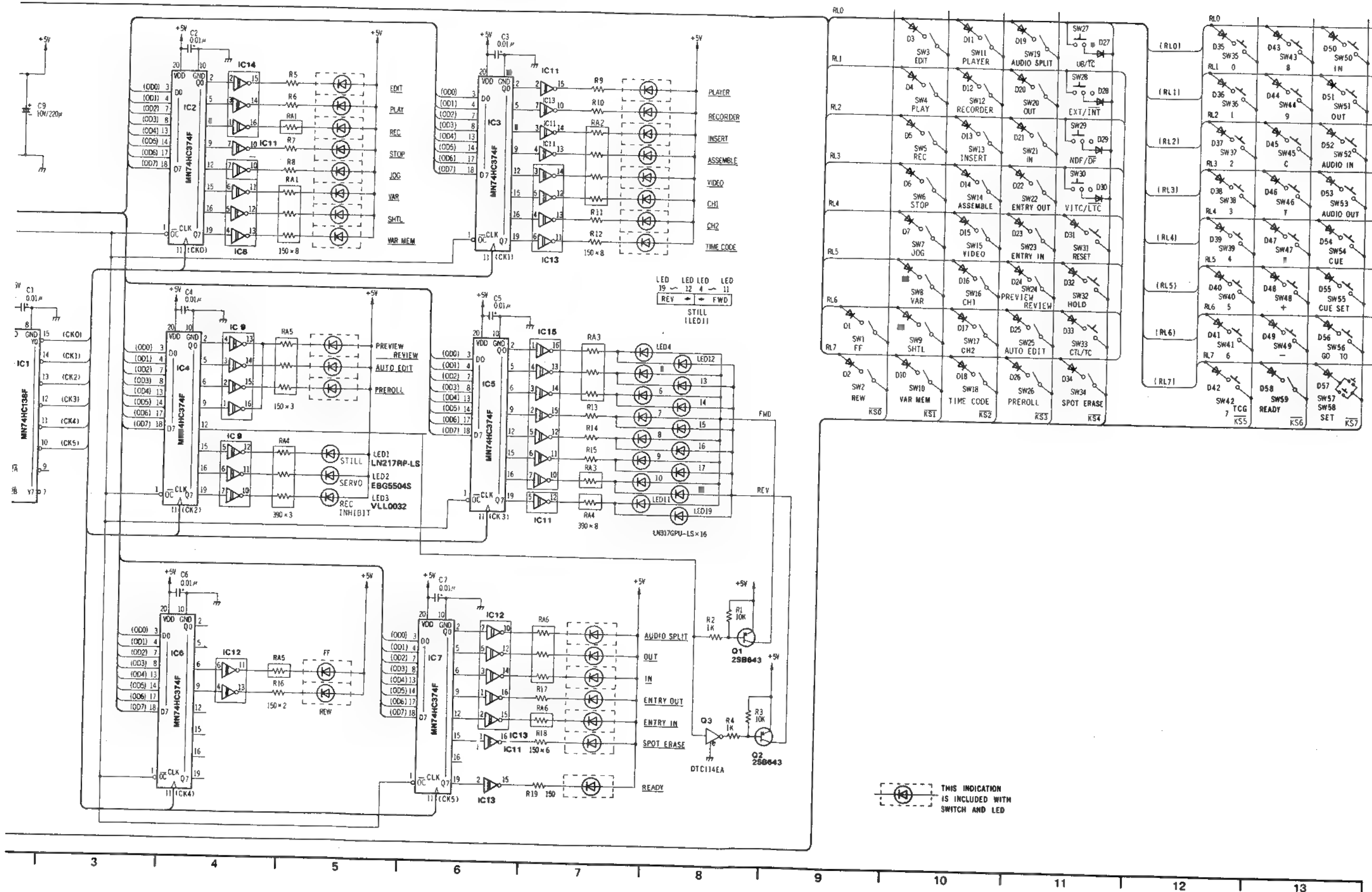
# FRONT PANEL A SCHEMATIC D



# HEMATIC DIAGRAM [FOR AU-665 NTSC]

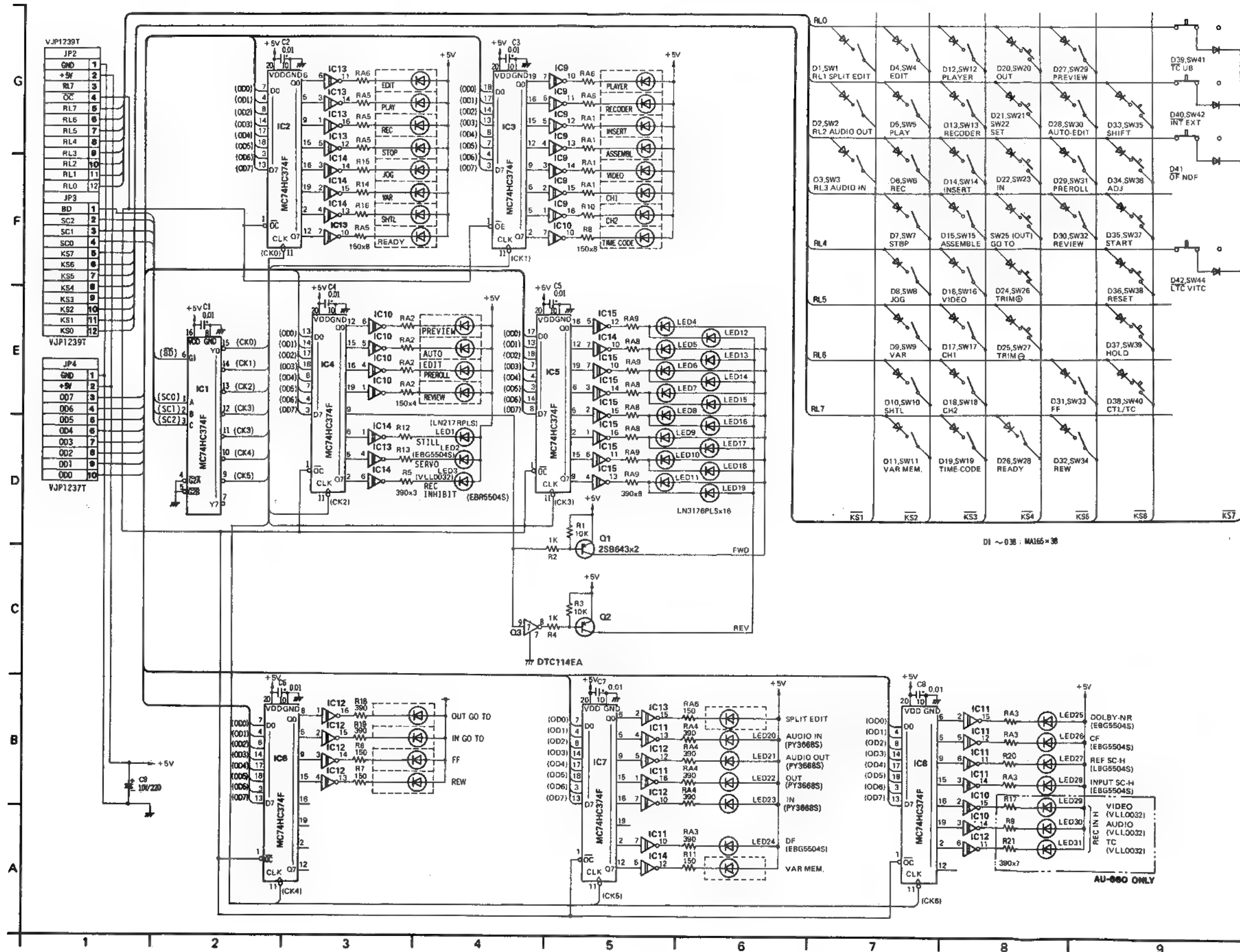
|       |           |        |       |       |       |
|-------|-----------|--------|-------|-------|-------|
| MODEL | AU-665/PE | AU-665 | AU-65 | AU-63 | AU-62 |
| TYPE  | VEP66052C |        |       |       |       |
| NTSC  |           |        |       |       |       |
| PAL   |           |        |       |       |       |

See Next Page



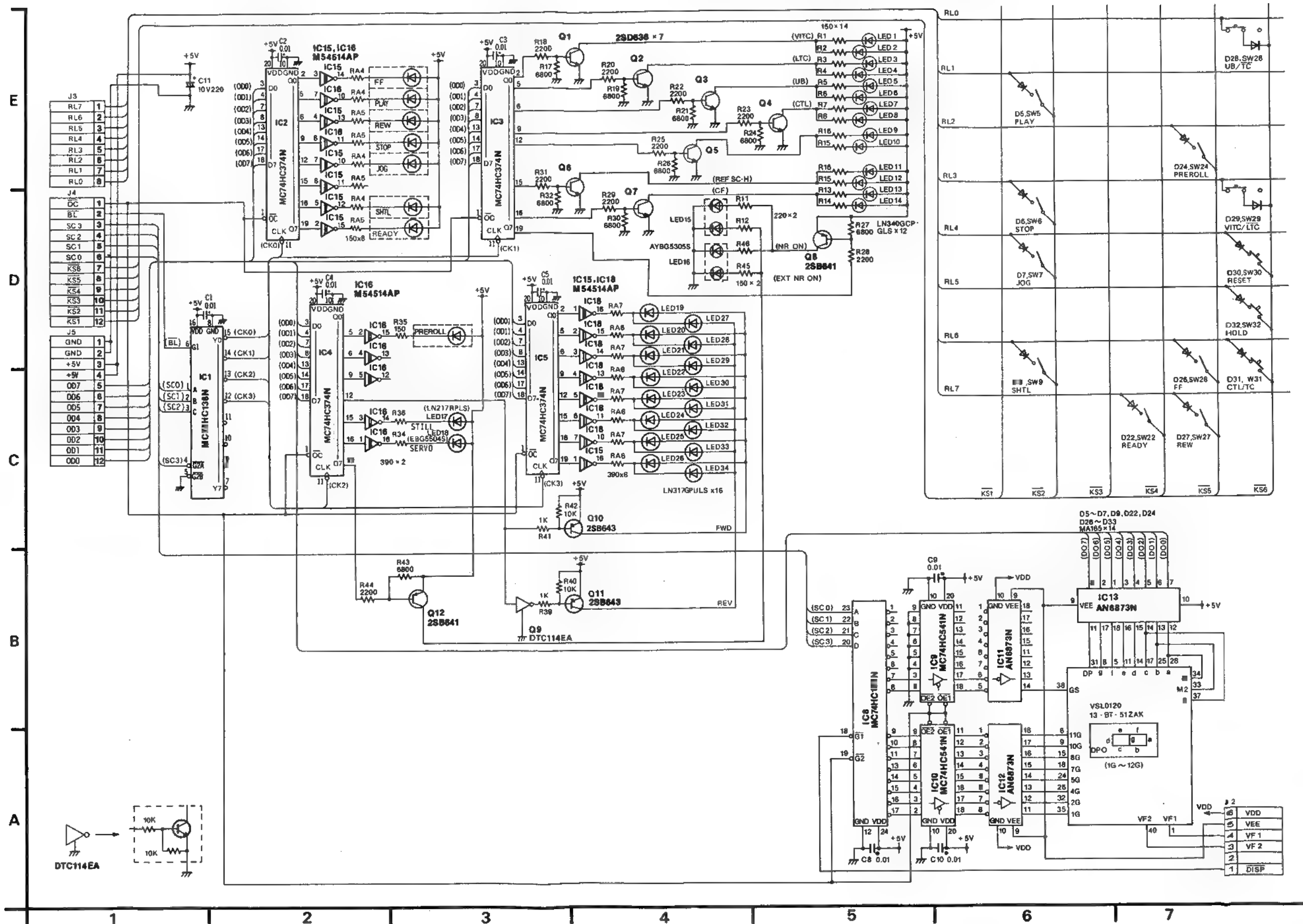
# FRONT PANEL A SCHEMATIC DIAGRAM[FOR AU-65]

| MODEL | AU-665/PE      | AU-665    | AU-65     | AU-63         | AU-62         |
|-------|----------------|-----------|-----------|---------------|---------------|
| TYPE  | See Front Page | VEP86050C | VEP86050C | See Next Page | See Next Page |
| NTSC  |                |           |           |               |               |
| PAL   |                |           | VEP86050D |               |               |



# FRONT PANEL A SCHEMATIC DIAGRAM[FOR AU-62,AU-63]

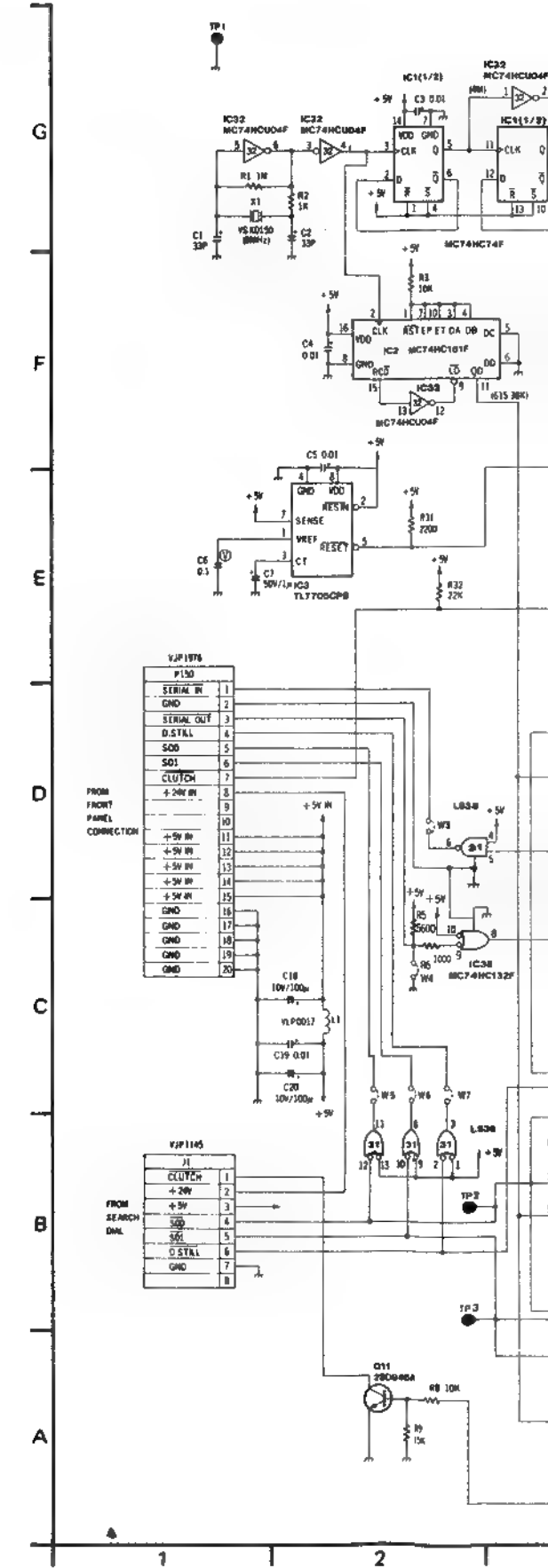
| MODEL TYPE | AU-665          | AU-65          | AU-63     | AU-62     |
|------------|-----------------|----------------|-----------|-----------|
| NTSC       | See Page 5-2-38 | See Front Page | VEP86086A | VEP86086A |
| PAL        | —               | See Front Page | VEP86086A | VEP86086A |





| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP66022A | VEP66022A | VEP86076C | VEP86076C |
| PAL           | VEP66022A | VEP66022A | VEP86076D | VEP86076D |

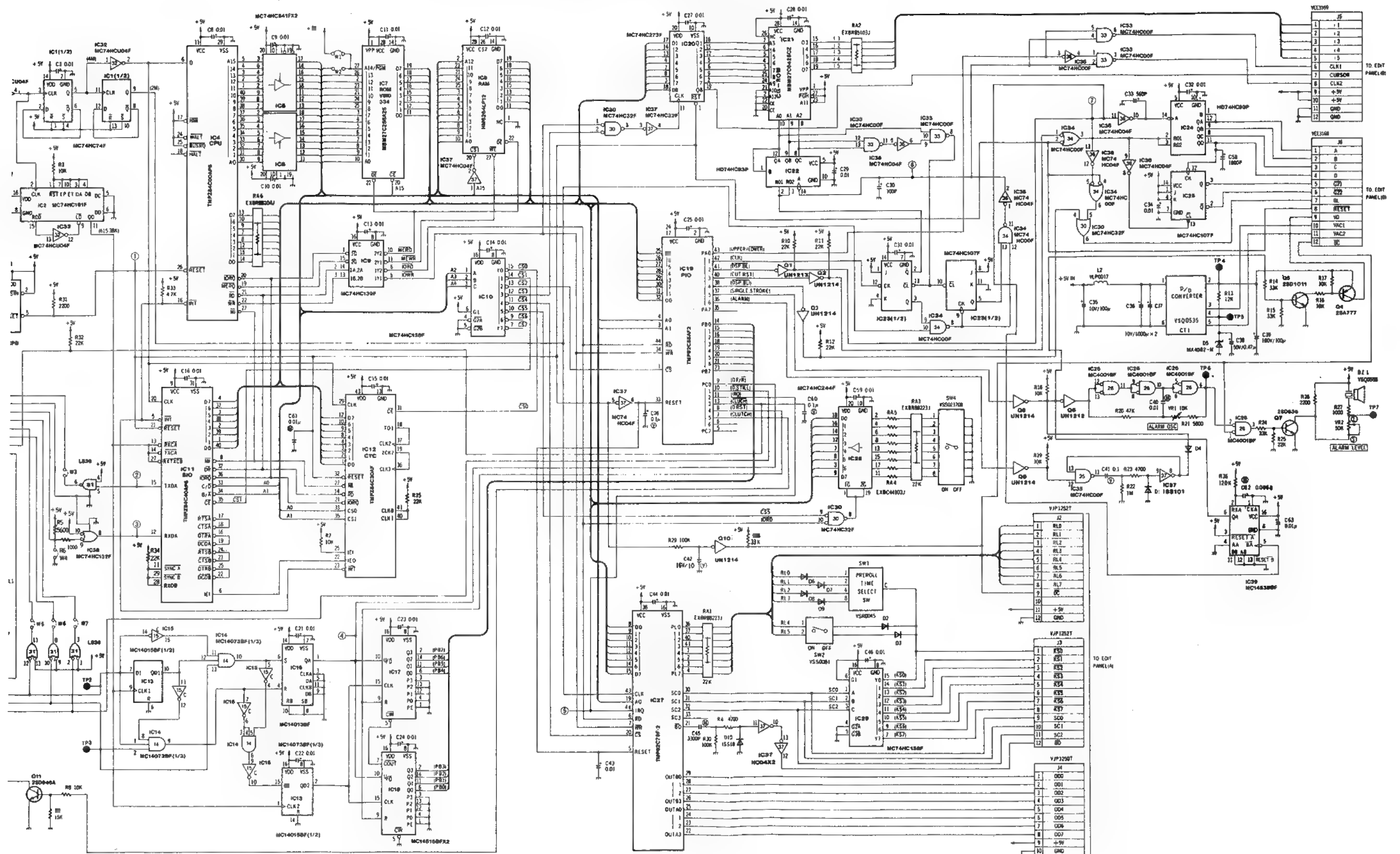
## FRONT PANEL C SCHEMATIC





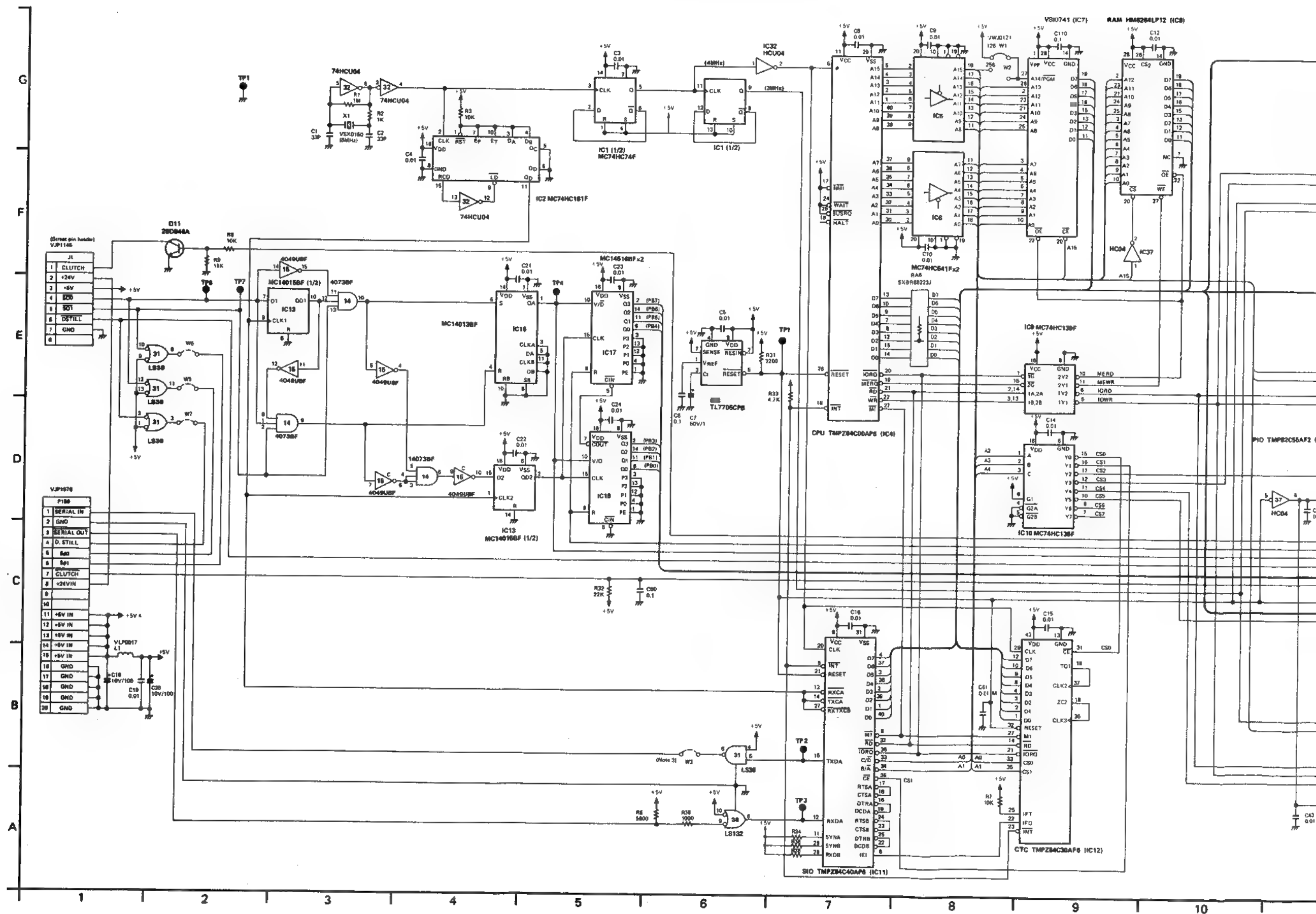
### 2 SCHEMATIC DIAGRAM[FOR AU-665]

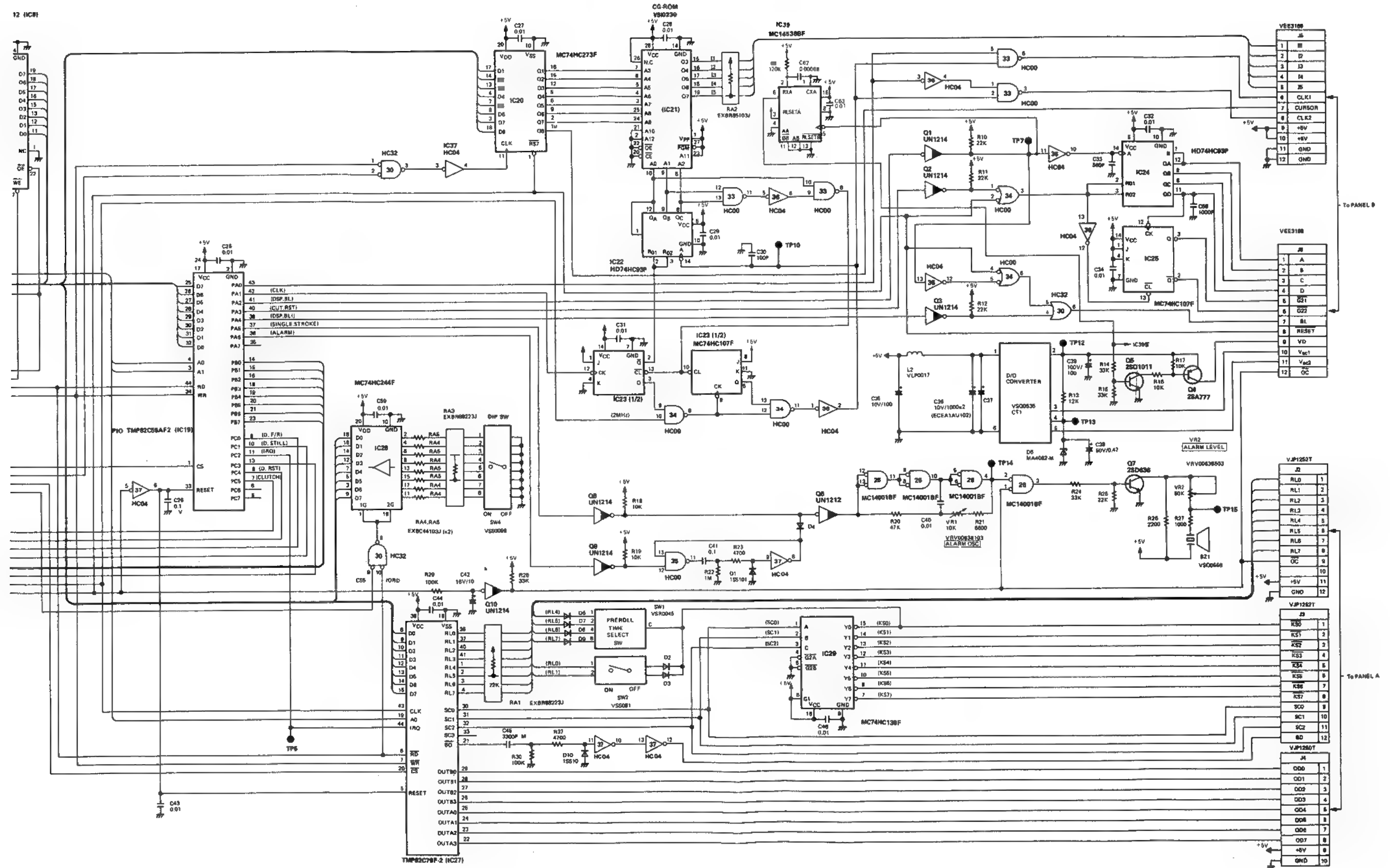
| MODEL<br>TYPE | AU-665    | AU-65         | AU-63    | AU-62    |
|---------------|-----------|---------------|----------|----------|
| NTSC          | VEP66053E | See Next Page | Not Used | Not Used |
| PAL           |           | See Next Page | Not Used | Not Used |



# FRONT PANEL C SCHEMATIC DIAGRAM[FOR AU-65]

| MODEL | AU-665         | AU-65     | AU-63    | AU-62    |
|-------|----------------|-----------|----------|----------|
| TYPE  | See Front Page | VEP86048F | Not Used | Not Used |
| NTSC  |                | VEP86048G | Not Used | Not Used |
| PAL   |                |           | Not Used | Not Used |

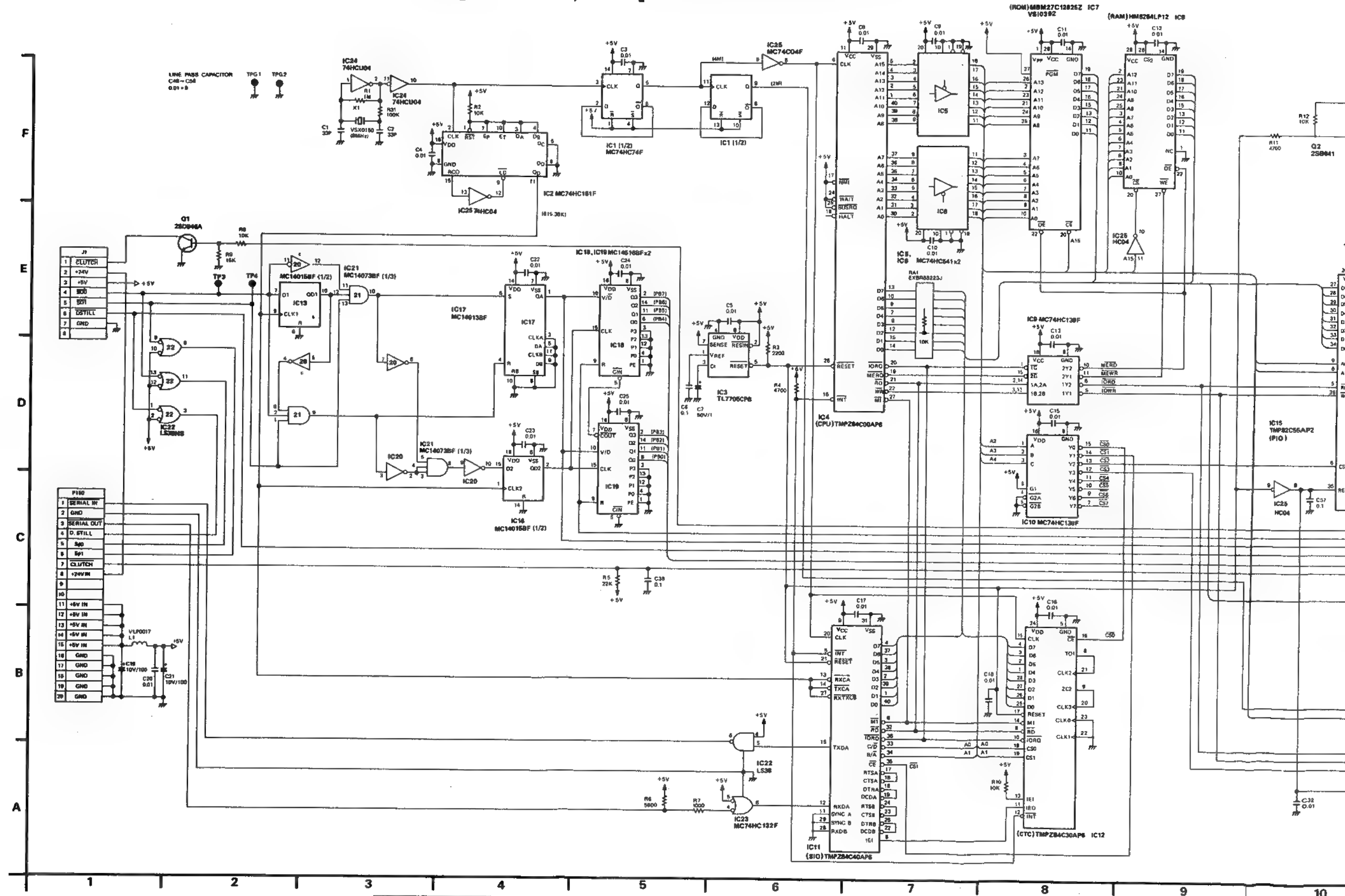




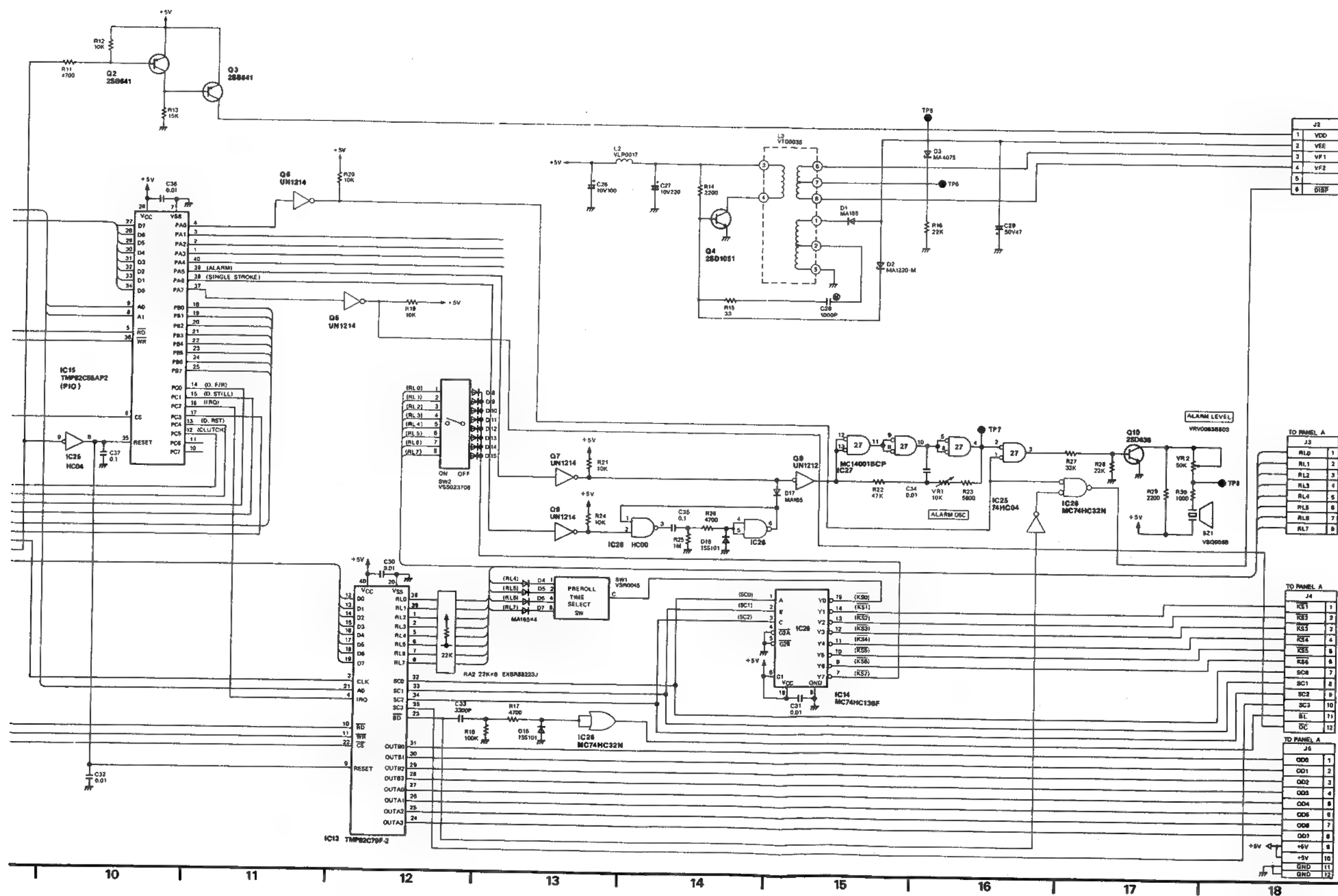
# FRONT PANEL C SCHEMATIC DIAGRAM

| MODEL | AU-665    | AU-65     | AU-63    | AU-62    |
|-------|-----------|-----------|----------|----------|
| TYPE  | VEP66053E | VEP66048F | Not Used | Not Used |
| PAL   | VEP66048H | VEP66048G | Not Used | Not Used |

## FRONT PANEL C SCHEMATIC DIAGRAM[FOR AU-63,AU-62]

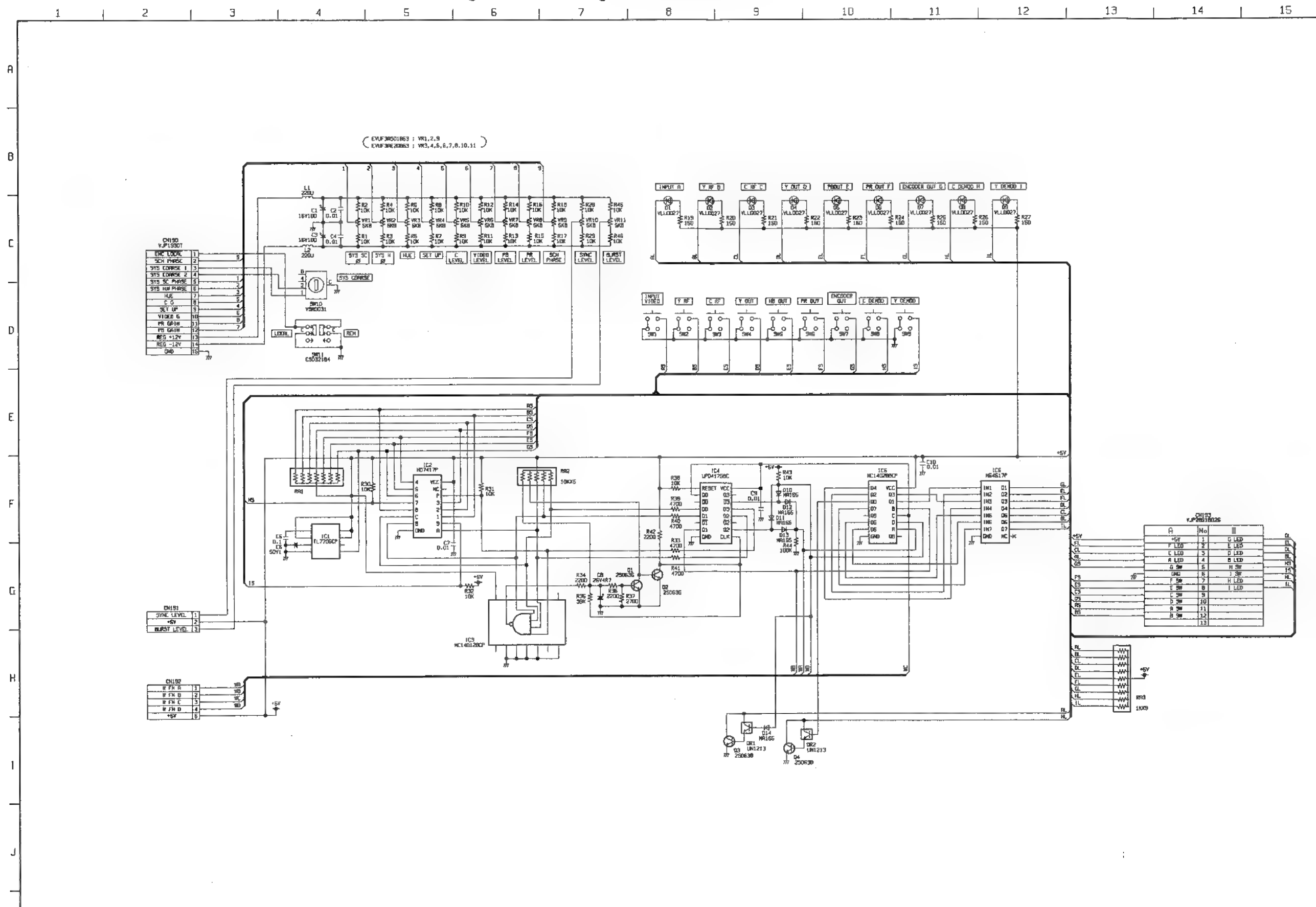


## REVERSE SIDE FRONT PANEL C SCHEMATIC DIAGRAM



|       |           |               |       |       |
|-------|-----------|---------------|-------|-------|
| MODEL | AU-665    | AU-65         | AU-63 | AU-62 |
| TYPE  | VEP80613A | See Next Page |       |       |
| NTSC  | VEP80613A |               |       |       |
| PAL   | VEP80613B |               |       |       |

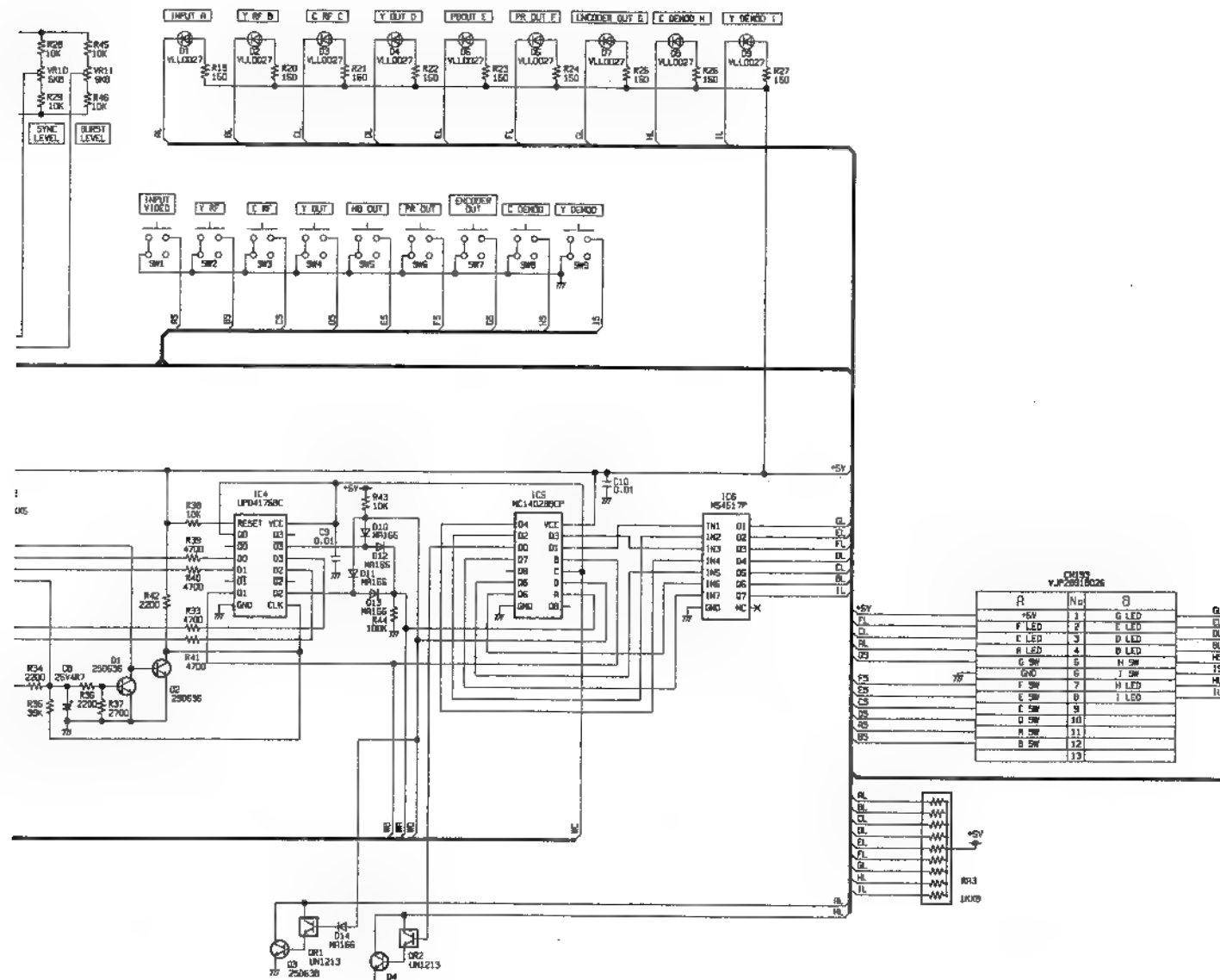
# FRONT SW & VR SCHEMATIC DIAGRAM[FOR AU-665]



| MODEL | AU-665    | AU-65         | AU-63 | AU-62 |
|-------|-----------|---------------|-------|-------|
| TYPE  |           |               |       |       |
| NTSC  | VEP80613A | See Next Page |       |       |
| PAL   | VEP80613B |               |       |       |

65]

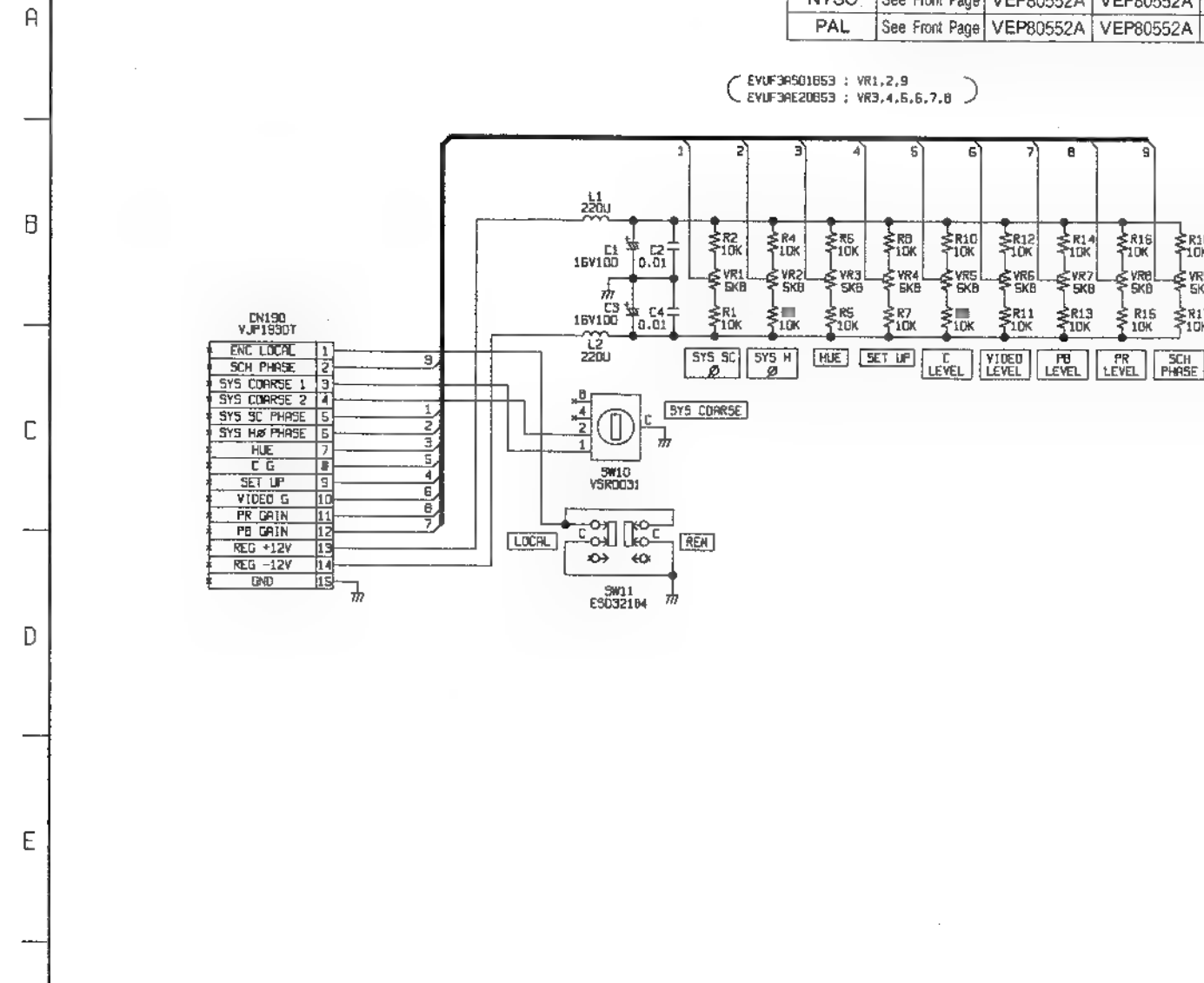
7 8 9 10 11 12 13 14 15



# FRONT SW & VR SCHEMATIC DIAGRAM[FOR AU-65,AU-63,AU-

| MODEL | AU-665         | AU-65     | AU-63     |
|-------|----------------|-----------|-----------|
| TYPE  |                |           |           |
| NTSC  | See Front Page | VEP80552A | VEP80552A |
| PAL   | See Front Page | VEP80552A | VEP80552A |

(EVUF3A501853 : VR1,2,9  
EVUF3A20853 : VR3,4,5,6,7,8)

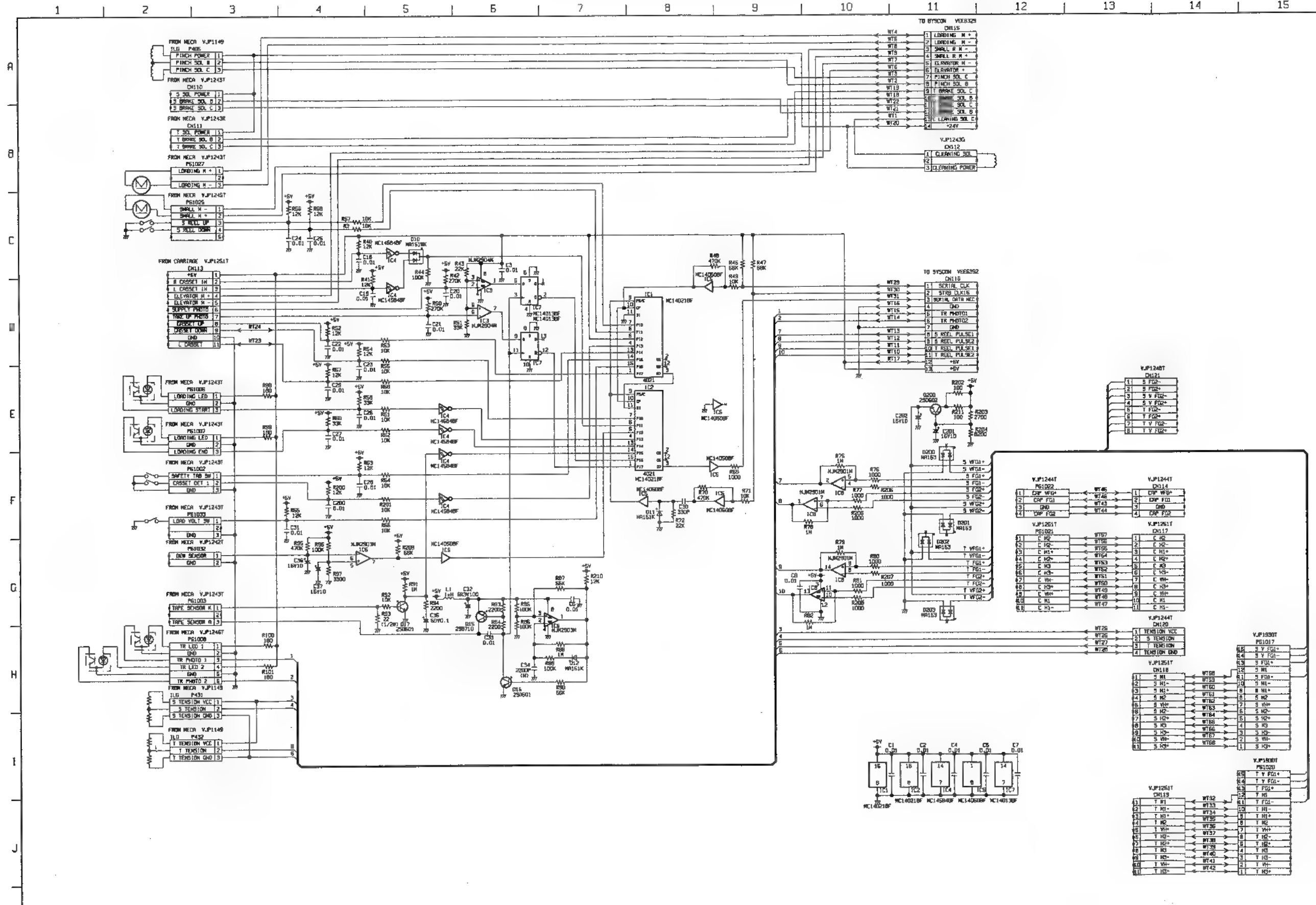




# MECHA INTERFACE SCHEMATIC DIAGRAM

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP80550A | VEP80550A | VEP80550A | VEP80550A |
| NTSC  | VEP80550A | VEP80550A | VEP80550A | VEP80550A |
| PAL   | VEP80550A | VEP80550A | VEP80550A | VEP80550A |

POWER

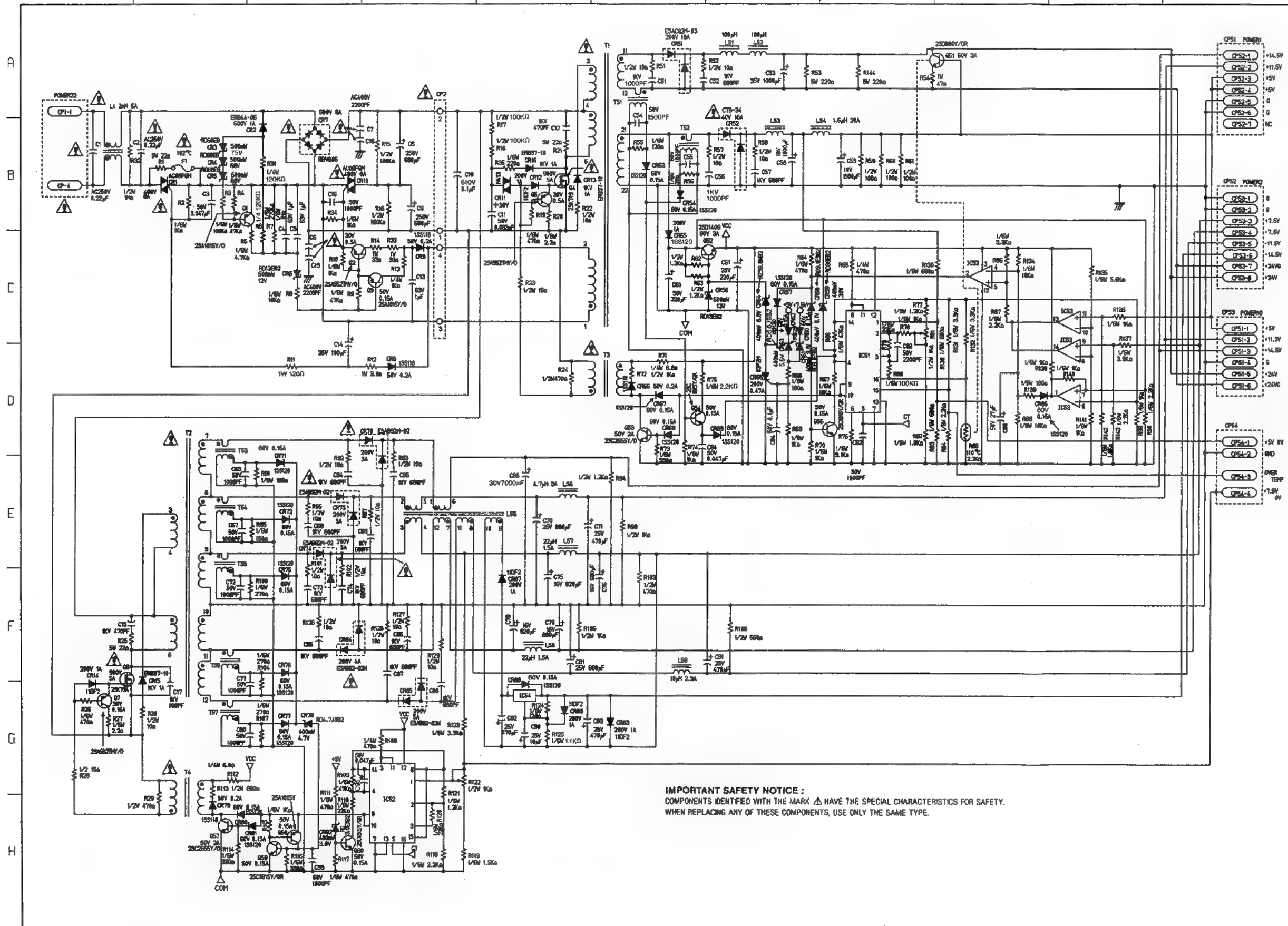







# POWER SCHEMATIC DIAGRAM

| MODEL TYPE | AU-665  | AU-65   | AU-63   | AU-62   |
|------------|---------|---------|---------|---------|
| NTSC       | VYK3004 | VYK3004 | VYK3004 | VYK3004 |
| PAL        | VYK3637 | VYK3637 | VYK3637 | VYK3637 |

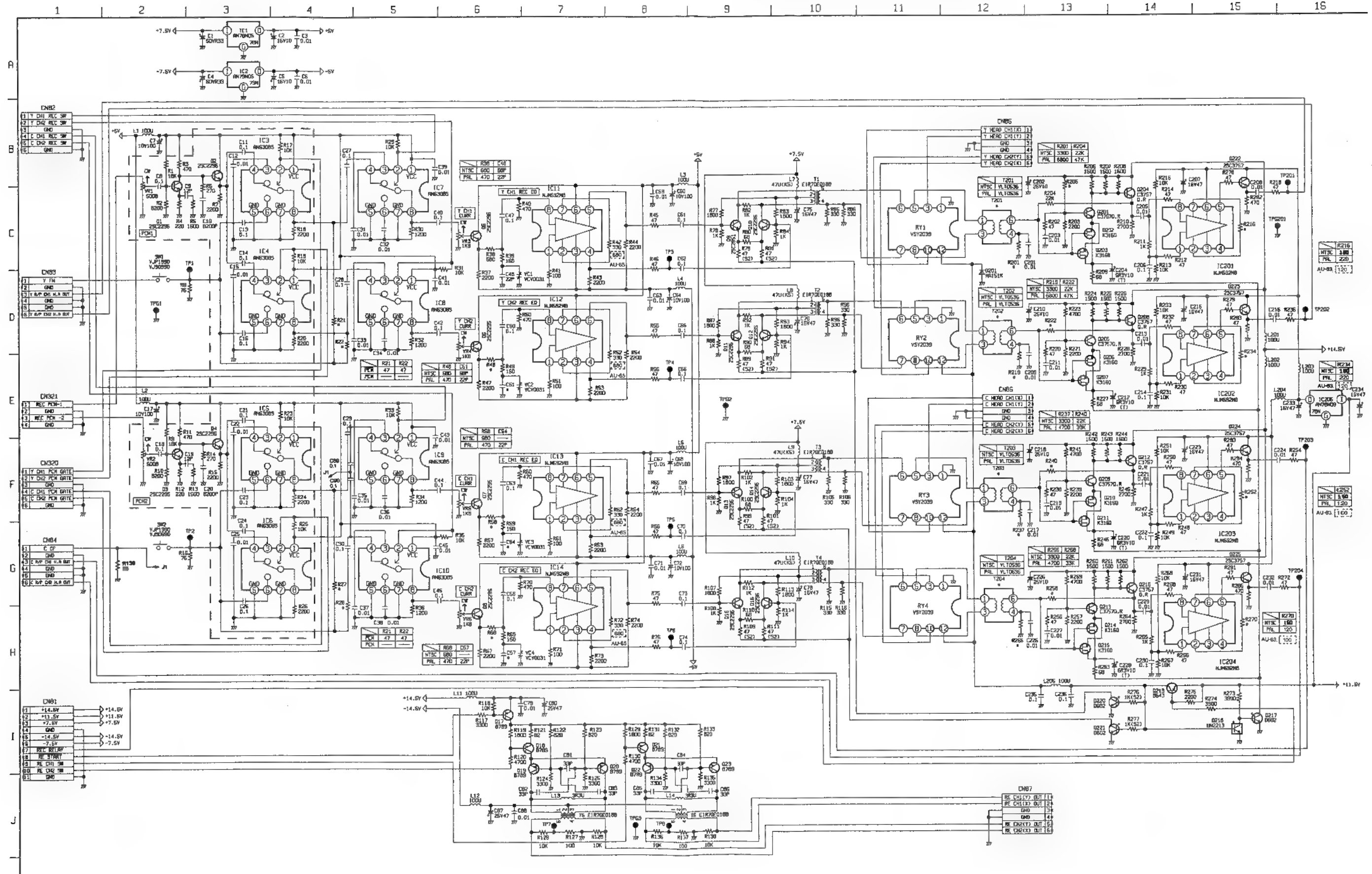


**IMPORTANT SAFETY NOTICE :**  
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.  
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

# RA, HA SCHEMATIC DIAGRAM

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP85015A | VEP85015A | VEP85015C | VEP85015B |
| NTSC  | VEP85015A | VEP85015A | VEP85015C | VEP85015B |
| PAL   | VEP85015D | VEP85015D | VEP85015F | VEP85015E |

## RA/HA SCHEMATIC DIAGRAM



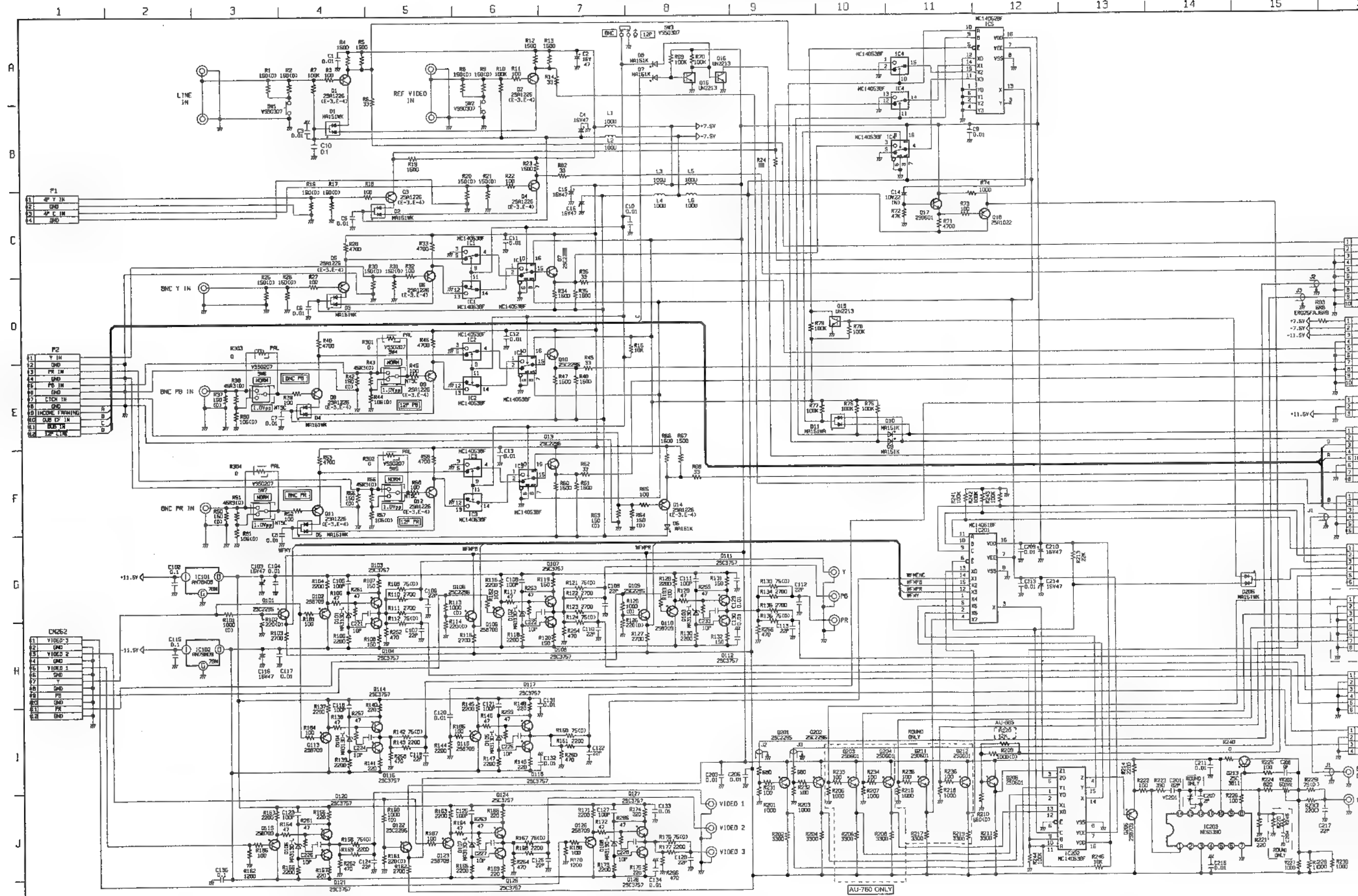
## REVERSE SIDE POWER SCHEMATIC DIAGRAM

5-2-46

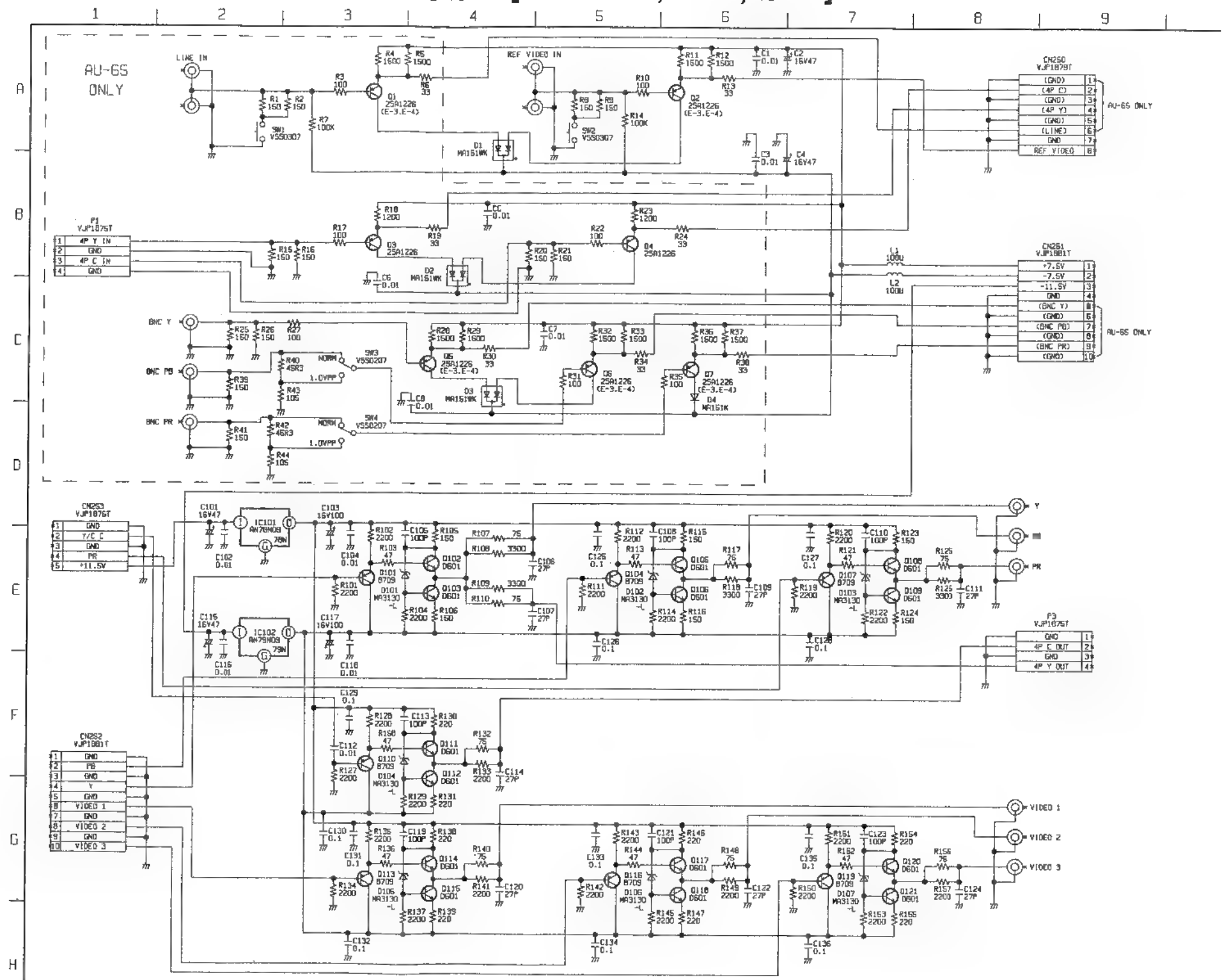
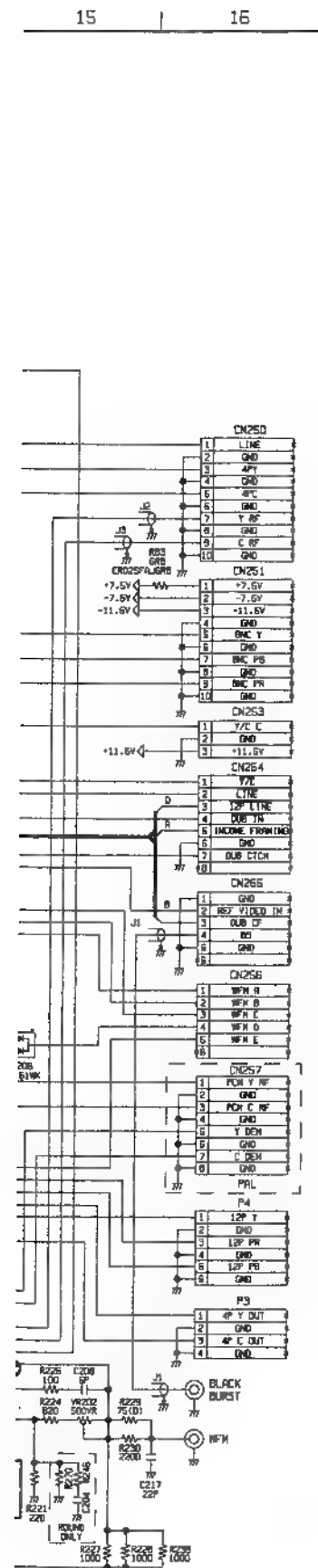
5-2-46

# VIDEO I/O SCHEMATIC DIAGRAM[FOR AU-665]

| MODEL TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|------------|-----------|-----------|-----------|-----------|
| NTSC       | VEP83104A | VEP83097A | VEP83097B | VEP83097B |
| PAL        | VEP83104B | VEP83097A | VEP83097B | VEP83097B |



# VIDEO I/O SCHEMATIC DIAGRAM[FOR AU-65,AU-63,AU-62]

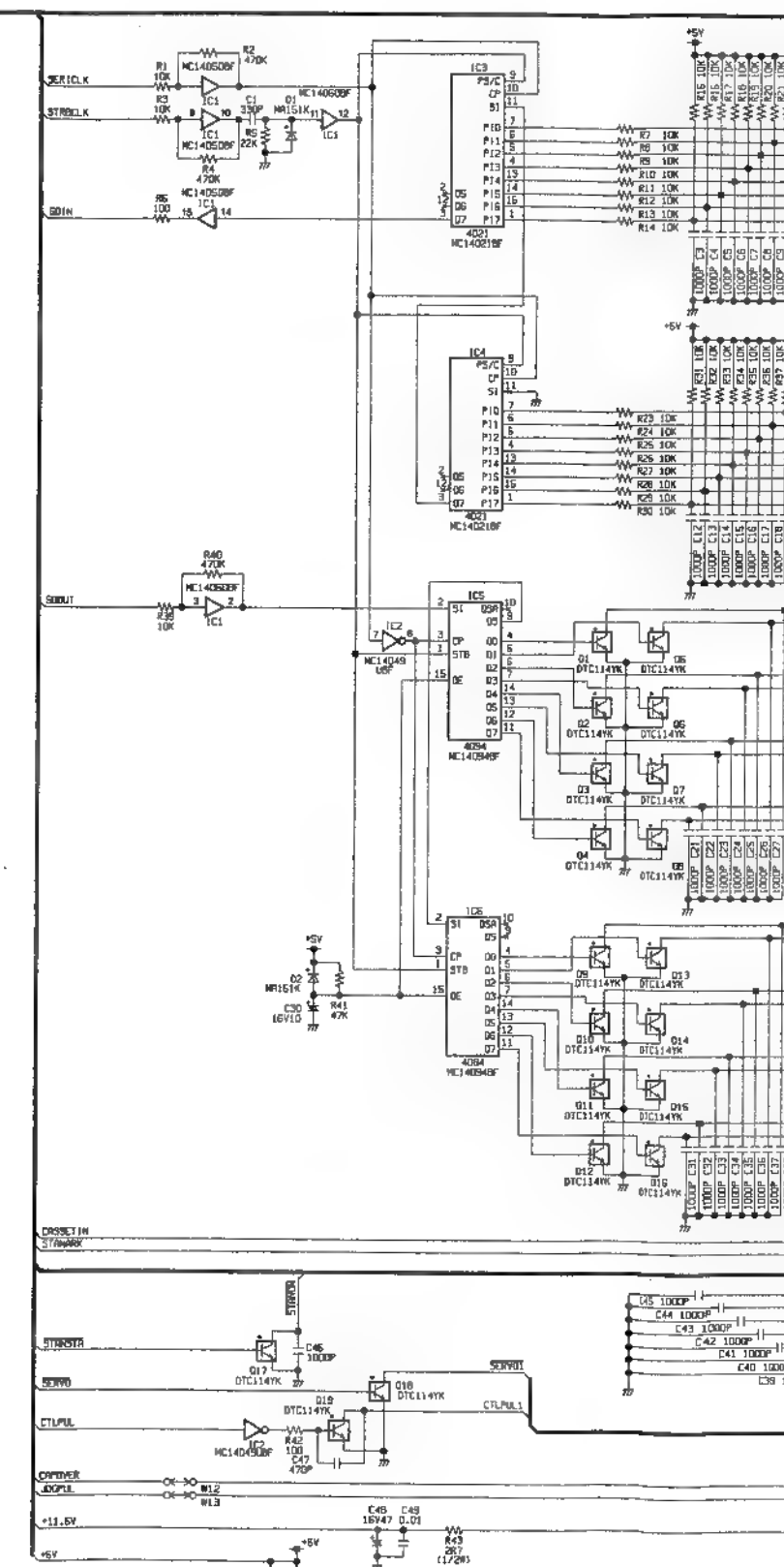
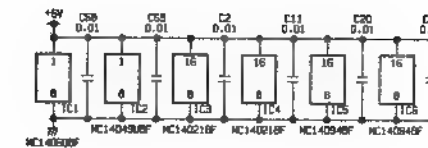
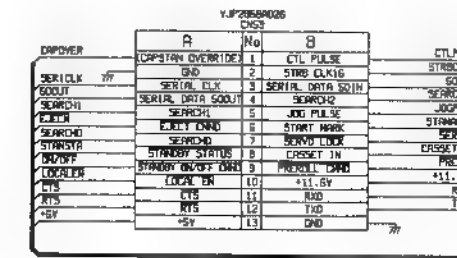
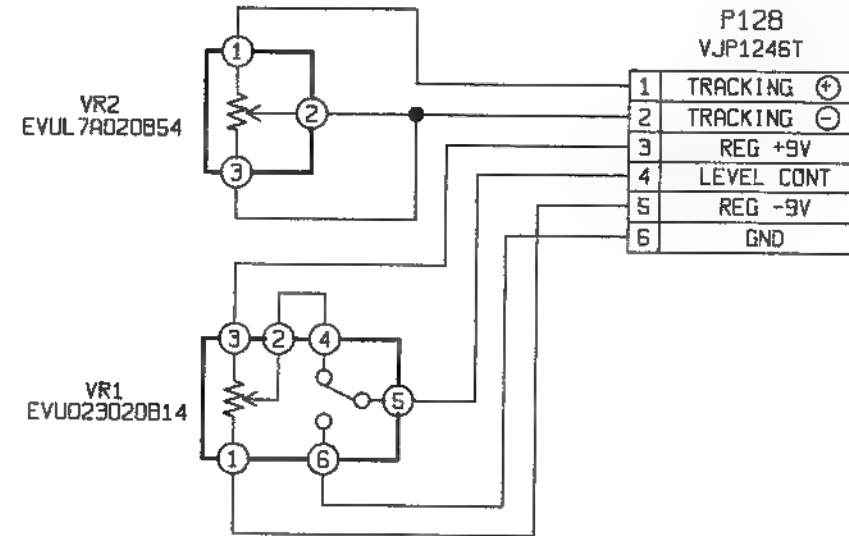


# VIDEO VR SCHEMATIC DIAGRAM[FOR AU-665]

# 50P REMOTE SCHEMATIC DIAGRAM[FOR AU-665]

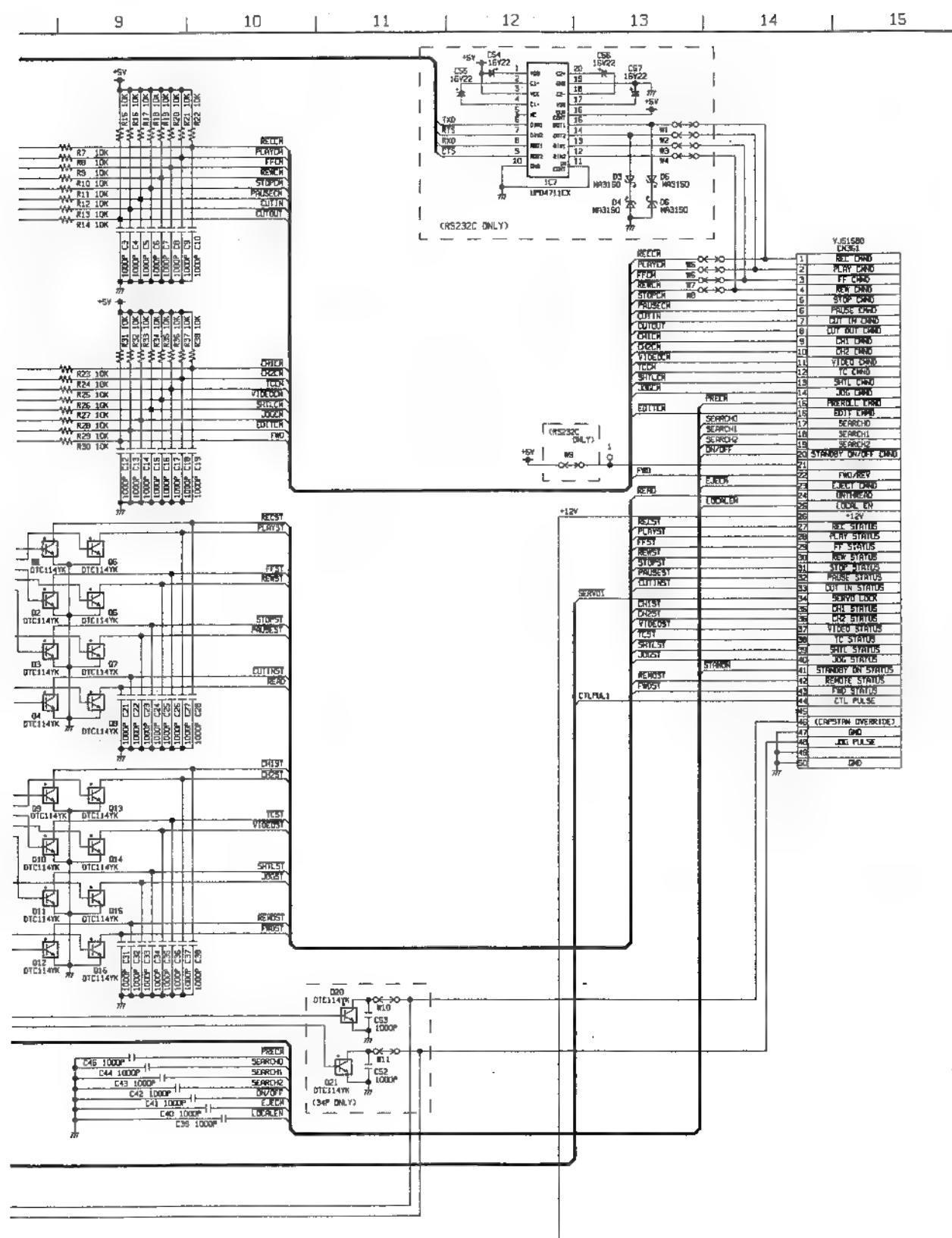
|       |           |           |
|-------|-----------|-----------|
| MODEL | AU-665    | AU-665    |
| TYPE  | VEP80558A | VEP80558A |
| NTSC  | VEP80558A | VEP80558A |
| PAL   | VEP80558A | VEP80558A |

|       |           |          |          |          |
|-------|-----------|----------|----------|----------|
| MODEL | AU-665    | AU-65    | AU-63    | AU-62    |
| TYPE  | VEP80621A | Not Used | Not Used | Not Used |
| PAL   | VEP80621A | Not Used | Not Used | Not Used |

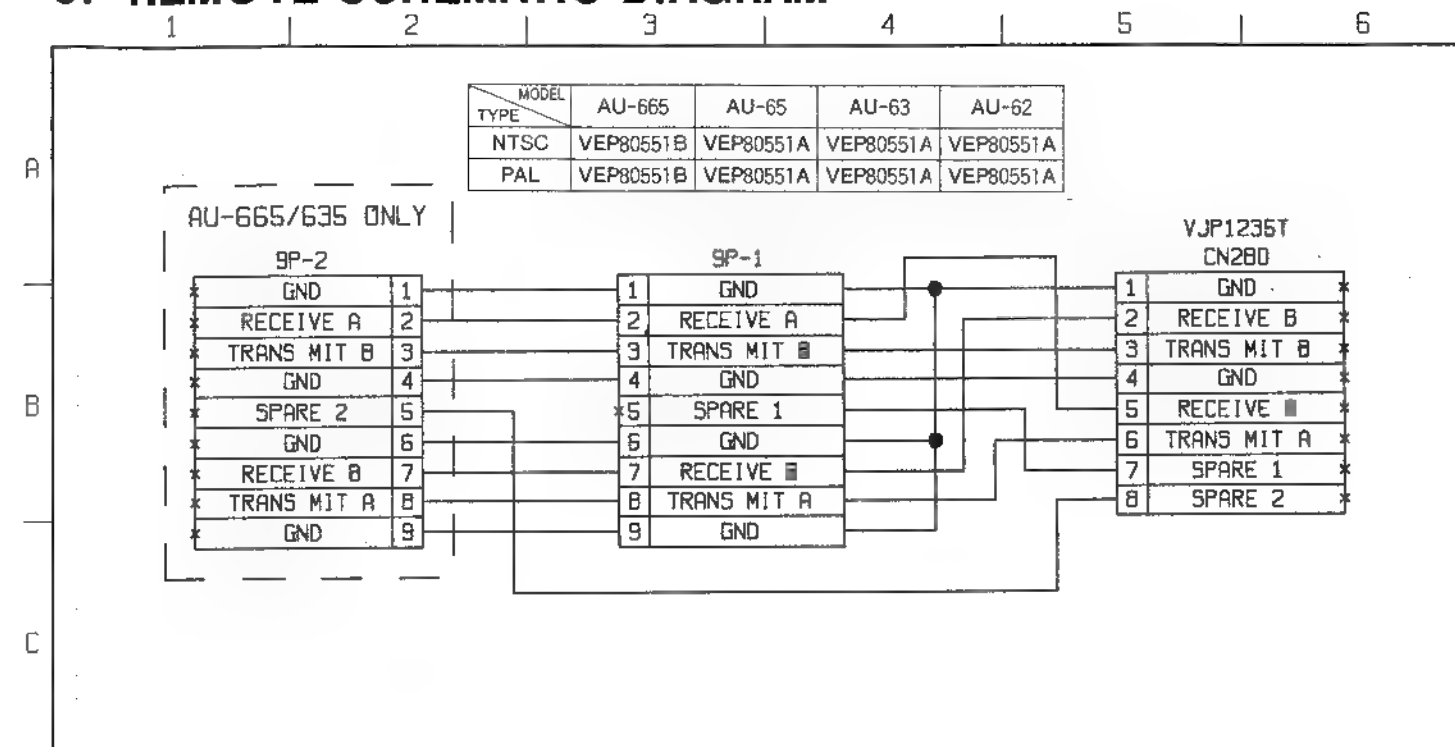




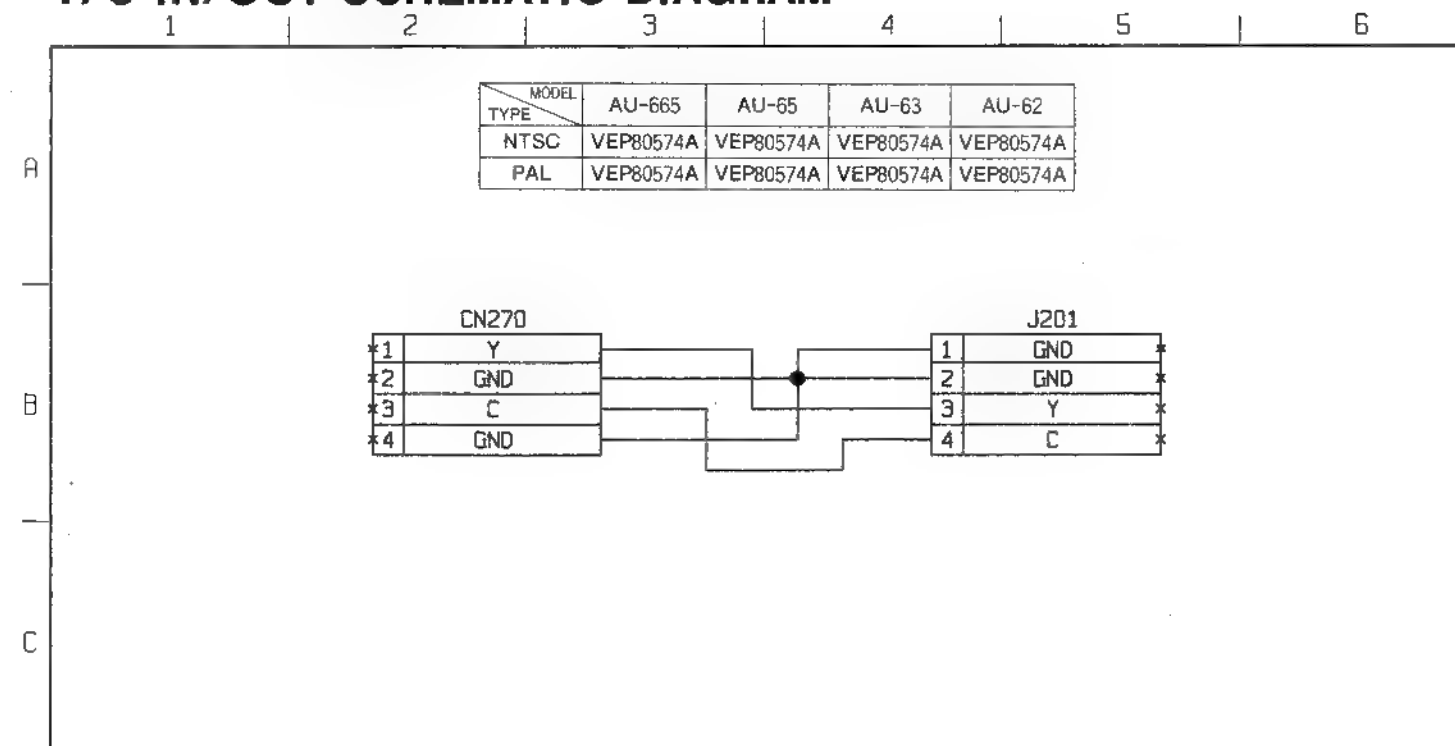
| MODEL | AU-665    | AU-65                    | AU-63 | AU-62 |
|-------|-----------|--------------------------|-------|-------|
| SC    | VEP80558A | Refer To AU-MK25 Section |       |       |
| L     | VEP80558A |                          |       |       |



## 9P REMOTE SCHEMATIC DIAGRAM

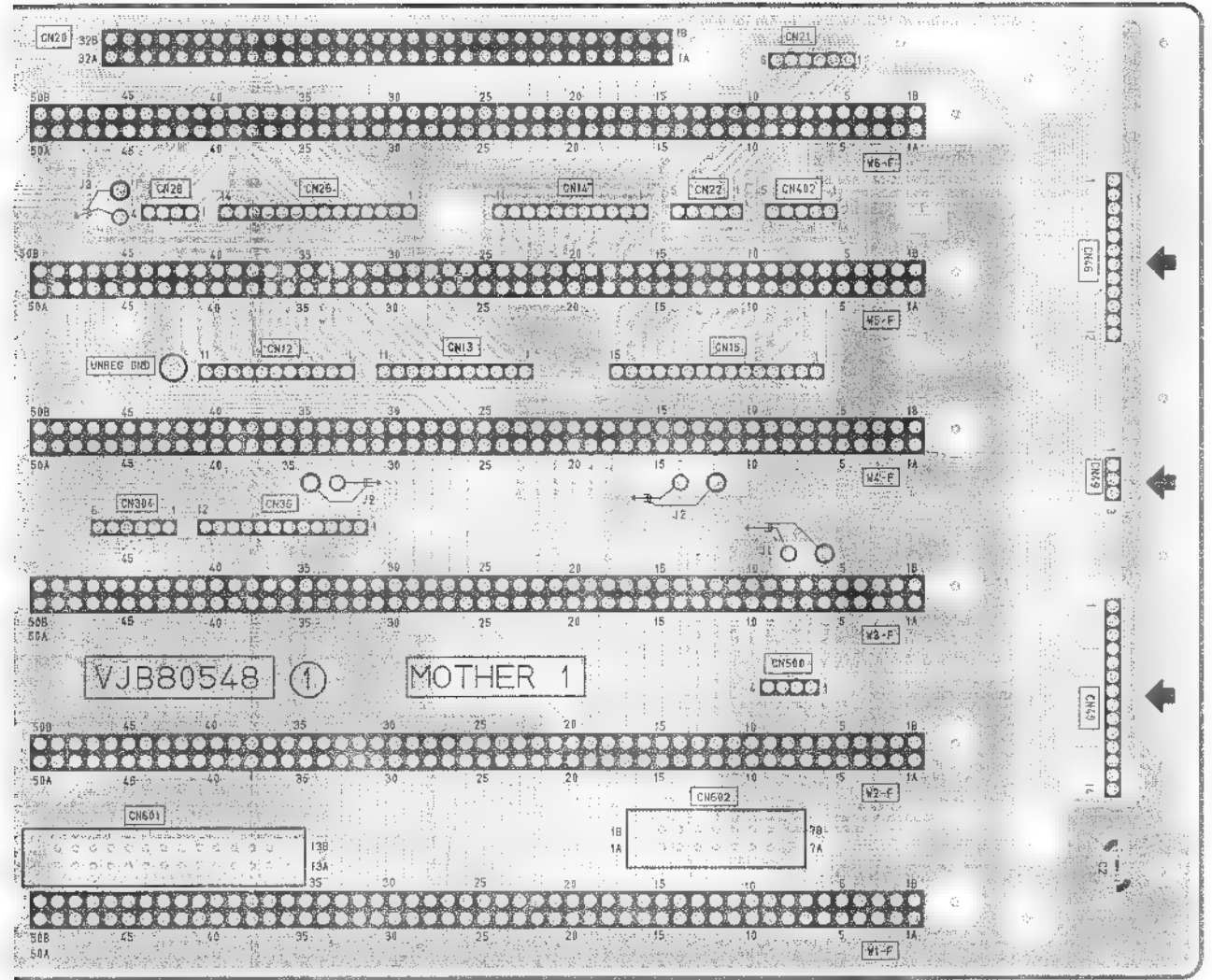
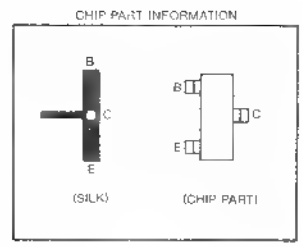


## Y/C IN/OUT SCHEMATIC DIAGRAM

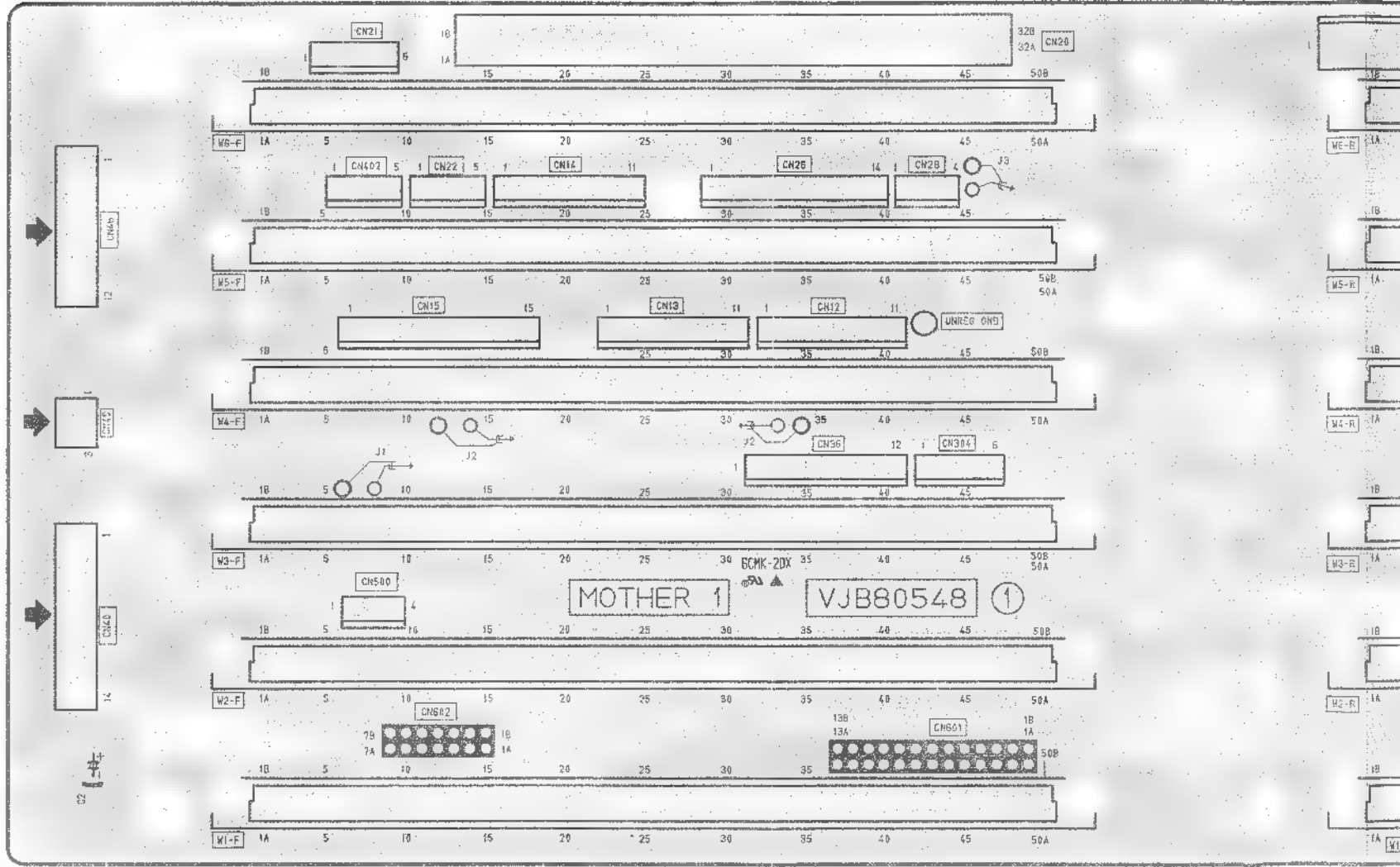


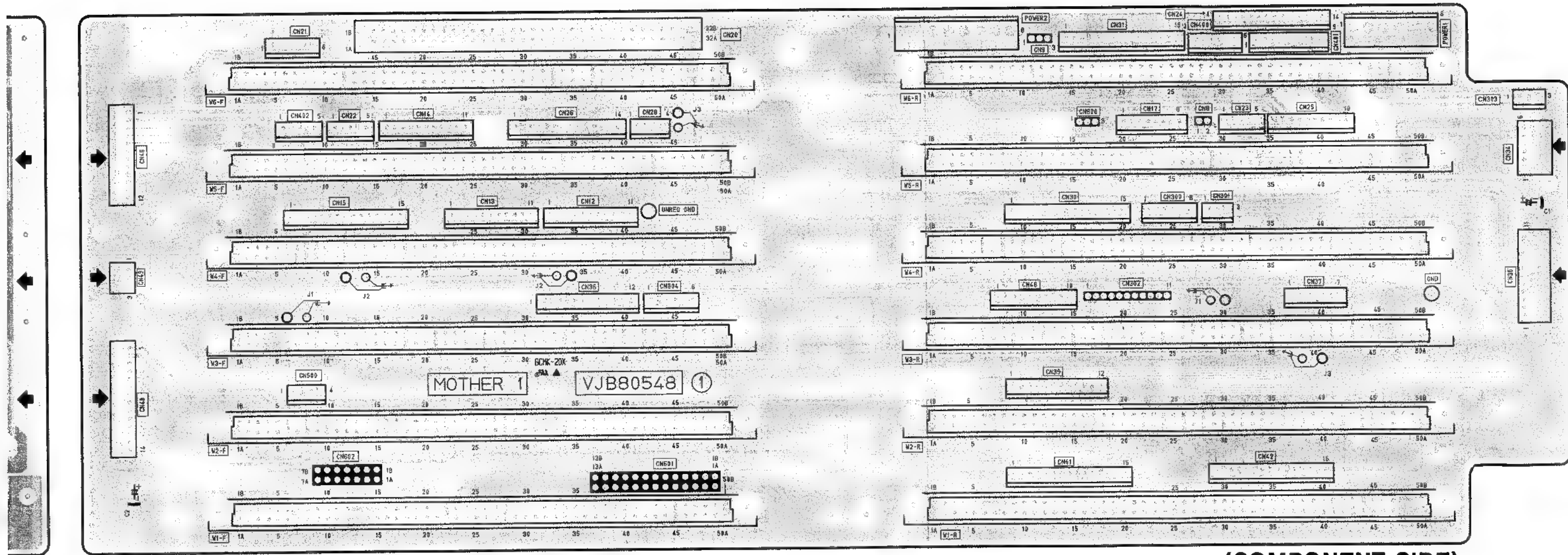
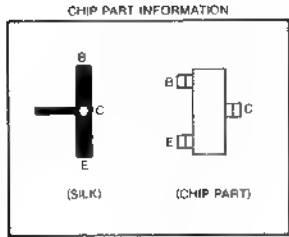






(FOIL SIDE)





(COMPONENT SIDE)

(E)

13 14 15 16 17 18 19 20 21 22 23 24

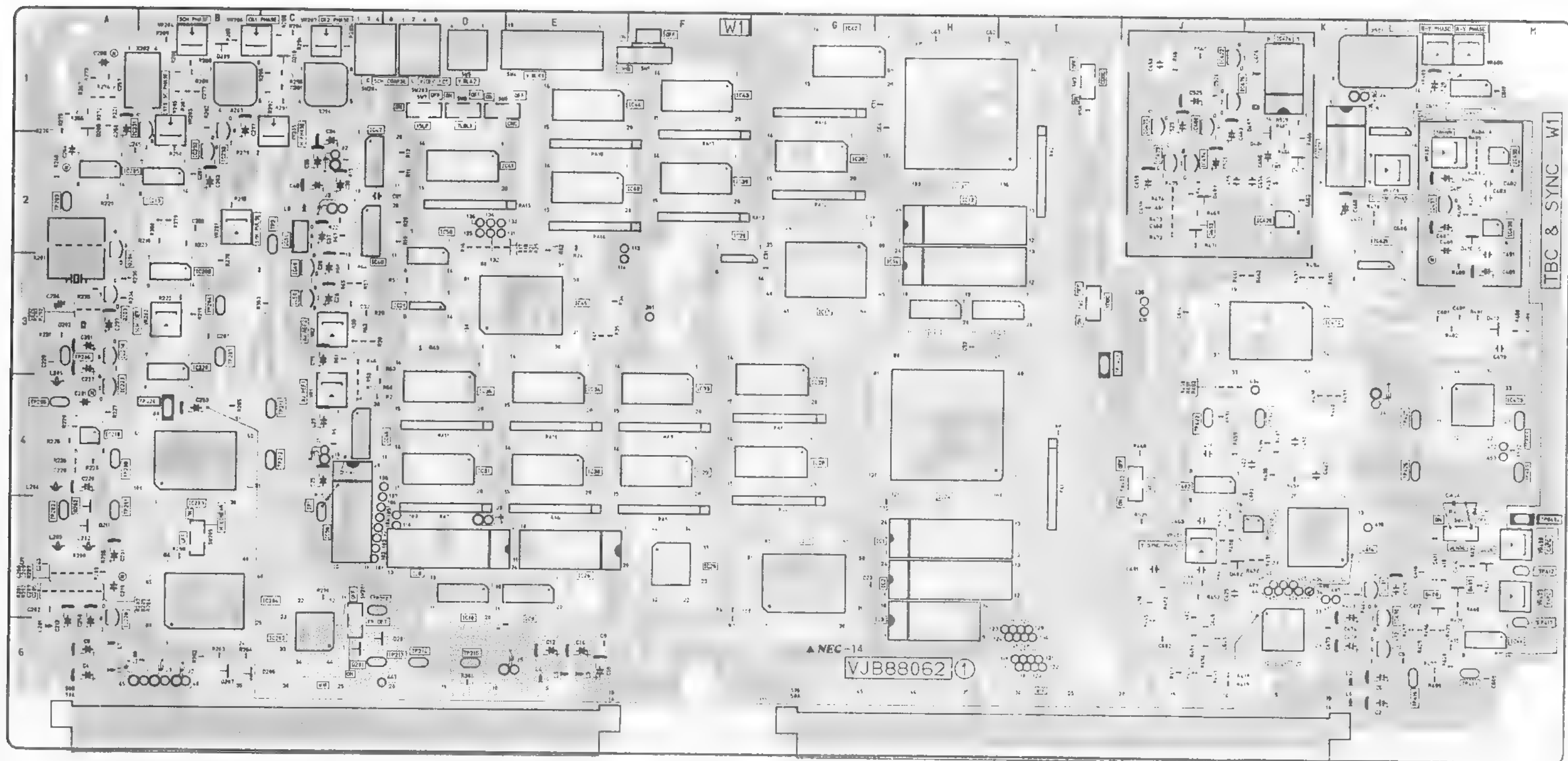
REVERSE SIDE

5-3-1

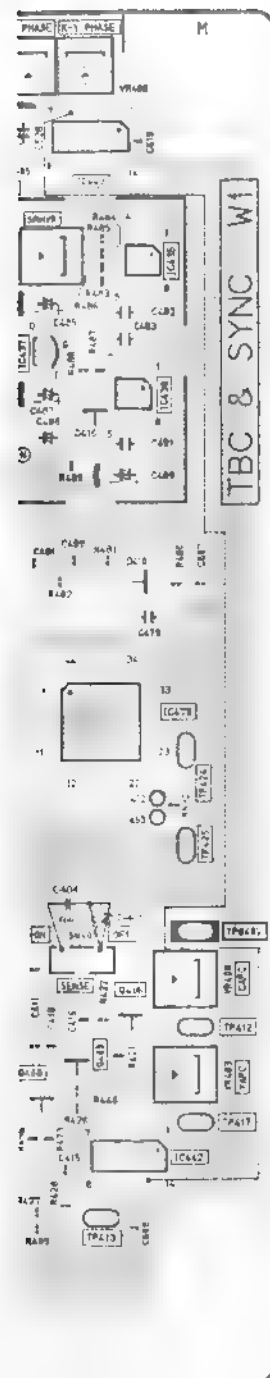
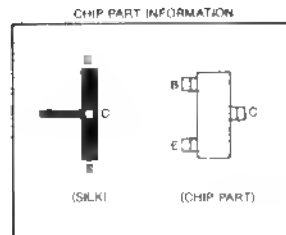
W1 TBC & SYNC & EN P.C.BOARD

**W1(TBC & SYNC GEN)P.C.BOARD**

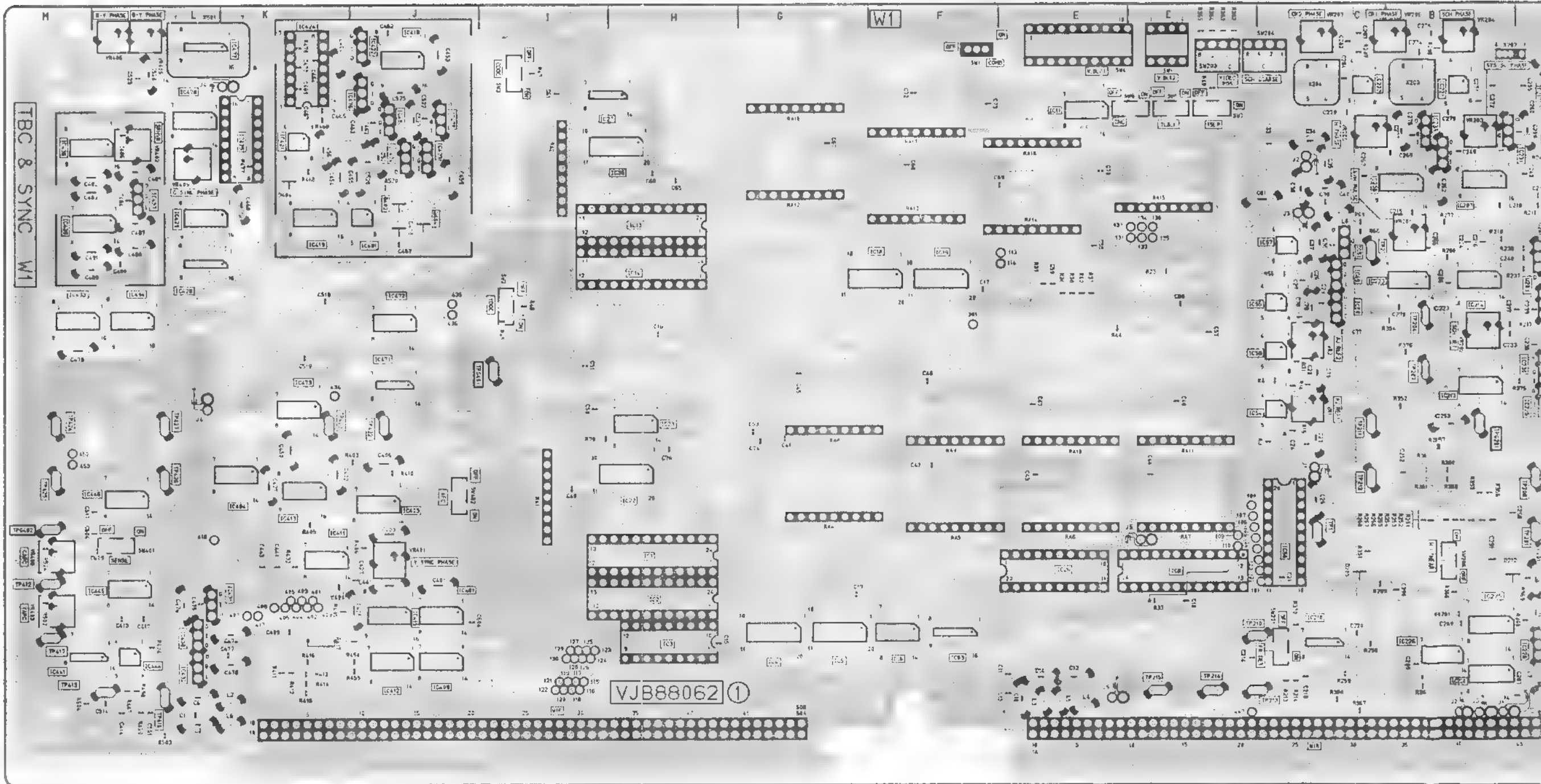
| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | See 5-3-5 | VEP88062A | VEP88062A | VEP88062A |
| PAL           | —         | VEP88062C | VEP88062C | VEP88062C |



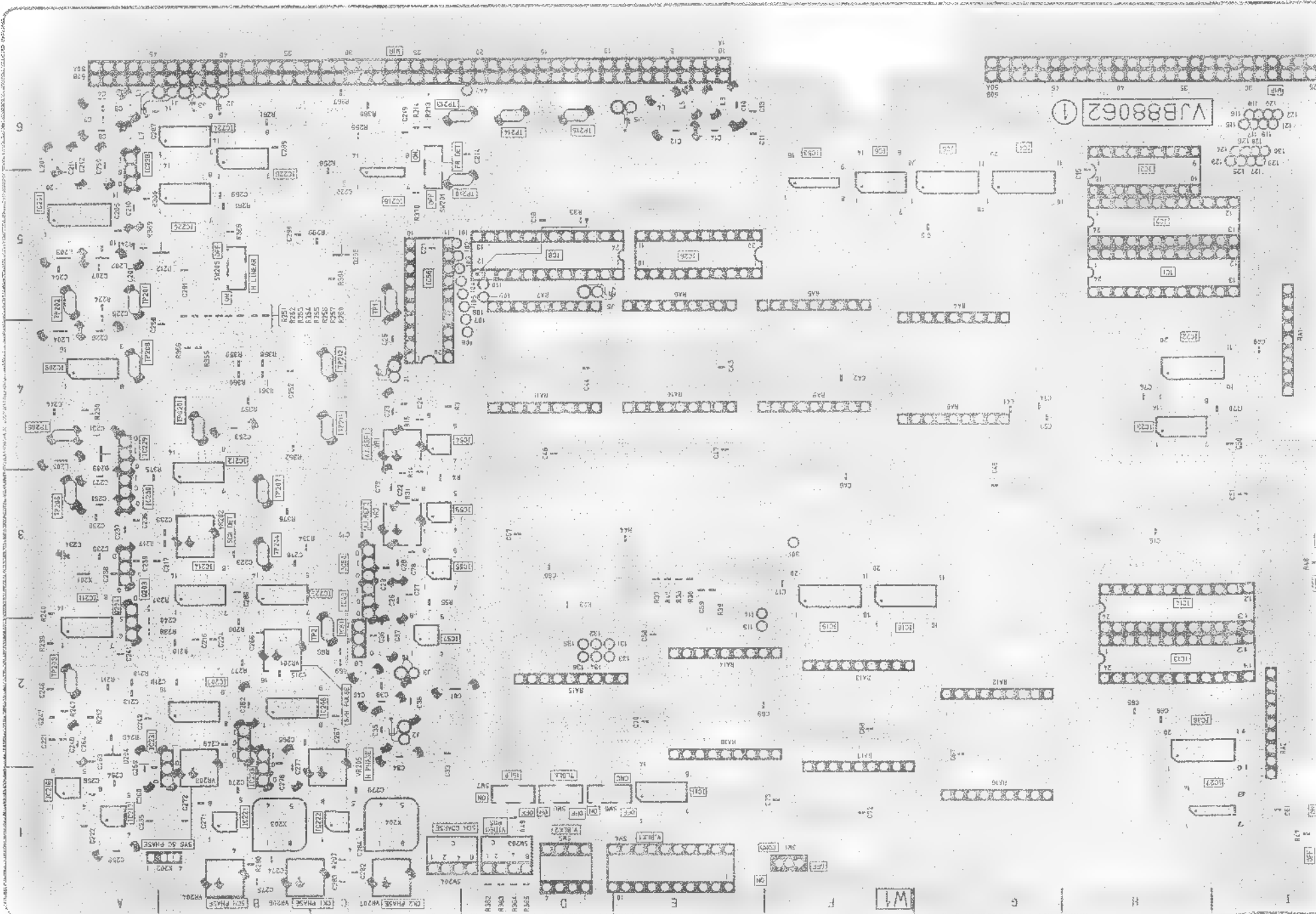
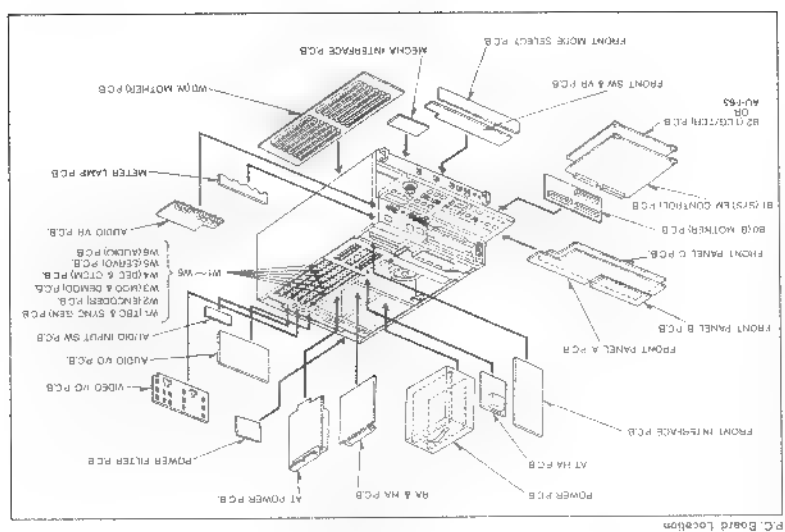
(COMPONENT SIDE)



IENT SIDE)



(FOI



W1 (TBC & SYNC GEN)

| COMPONENT SIDE   |  |       |       |             |     | FOIL SIDE  |   |       |       |     |  |  |
|--|--|-------|-------|-------------|-----|--|---|-------|-------|-----|--|--|
| Transistors  |  | IC204 | B-5   | TP413       | L-6 | Transistor   |   | IC445 | L-5   |     |  |  |
| Q201<br>Q202<br>Q203<br>Q204<br>Q403<br>Q405<br>Q406<br>Q408   | C-6  | IC205 | A-2   | TP416       | L-6 | Q402<br>Q404   | J-2   | IC446 | L-4   |     |  |  |
|  | A-5  | IC208 | B-3   | TP417       | M-5 |  | J-2   | IC471 | J-3   |     |  |  |
|  | A-3  | IC210 | A-4   | TP422       | J-4 | Integrated<br>Circuits   |   | IC472 | J-3   |     |  |  |
|  | A-2  | IC213 | B-2   | TP423       | K-4 |  |   | IC473 | K-4   |     |  |  |
|  | J-2  | IC220 | B-3   | TP424       | M-4 |  |   | IC477 | L-1   |     |  |  |
|  | L-5  | IC228 | A-6   | TP425       | M-4 |  |   | IC478 | L-1   |     |  |  |
|  | M-5  | IC229 | A-4   | TP426       | L-4 | IC4<br>IC5<br>IC6<br>IC11<br>IC18<br>IC19<br>IC22<br>IC23<br>IC27<br>IC36<br>IC53<br>IC54<br>IC55<br>IC57<br>IC59<br>IC201<br>IC206<br>IC207<br>IC209<br>IC211<br>IC212<br>IC214<br>IC216<br>IC217<br>IC218<br>IC221<br>IC222<br>IC223<br>IC224<br>IC225<br>IC226<br>IC401<br>IC403<br>IC404<br>IC409<br>IC411<br>IC412<br>IC413<br>IC415<br>IC418<br>IC419<br>IC421<br>IC428<br>IC429<br>IC433<br>IC434<br>IC436<br>IC439<br>IC441<br>IC444 | G-5<br>G-5<br>F-5<br>E-1<br>F-3<br>F-3<br>H-4<br>H-4<br>H-1<br>H-2<br>F-5<br>C-4<br>C-3<br>C-2<br>C-3<br>A-5<br>B-2<br>B-2<br>A-4<br>A-3<br>B-3<br>B-3<br>A-1<br>A-1<br>C-5<br>B-1<br>C-1<br>B-3<br>B-6<br>B-5<br>B-6<br>J-5<br>J-4<br>K-4<br>J-6<br>K-5<br>J-6<br>K-4<br>J-5<br>J-1<br>K-2<br>K-2<br>L-3<br>L-2<br>M-3<br>L-3<br>L-2<br>M-6<br>L-6 |       |       |     |  |  |
|  | L-5  | IC230 | A-3   | TP427       | L-4 |  |   |       | IC481 | J-2 |  |  |
| Integrated<br>Circuits   |  | IC231 | B-1   | TP GND      |     |  |   |       |       |     |  |  |
|  |  | IC232 | B-2   |             |     |  |   |       |       |     |  |  |
|  |  | IC233 | B-1   |             |     |  |   |       |       |     |  |  |
|  |  | IC402 | J-4   | TPG201      | B-4 |  |   |       |       |     |  |  |
| IC1<br>IC2<br>IC3<br>IC7<br>IC8<br>IC9<br>IC10<br>IC13<br>IC14<br>IC15<br>IC16<br>IC17<br>IC20<br>IC21<br>IC24<br>IC25<br>IC26<br>IC28<br>IC29<br>IC30<br>IC31<br>IC32<br>IC33<br>IC34<br>IC35<br>IC37<br>IC38<br>IC39<br>IC40<br>IC41<br>IC42<br>IC43<br>IC44<br>IC45<br>IC46<br>IC47<br>IC48<br>IC49<br>IC50<br>IC51<br>IC56<br>IC58<br>IC202<br>IC203 | H-5  | IC405 | K-6   | TPG401      | I-3 |  |   |       |       |     |  |  |
|  | H-5  | IC410 | K-5   | TPG402      | M-5 |  |   |       |       |     |  |  |
|  | H-5  | IC416 | K-5   | Adjustments |     |  |   |       |       |     |  |  |
|  | H-5  | IC420 | K-2   |             |     |  |   |       |       |     |  |  |
|  | G-5  | IC422 | J-1   |             |     |  |   |       |       |     |  |  |
|  | D-5  | IC423 | J-2   | VR1         | C-4 |  |   |       |       |     |  |  |
|  | E-5  | IC424 | K-1   | VR2         | C-3 |  |   |       |       |     |  |  |
|  | D-5  | IC425 | K-2   | VR201       | B-2 |  |   |       |       |     |  |  |
|  | H-2  | IC426 | L-3   | VR202       | B-3 |  |   |       |       |     |  |  |
|  | H-3  | IC427 | L-1   | VR203       | B-1 |  |   |       |       |     |  |  |
|  | H-3  | IC430 | L-5   | VR204       | B-1 |  |   |       |       |     |  |  |
|  | I-3  | IC431 | L-5   | VR205       | C-2 |  |   |       |       |     |  |  |
|  | G-3  | IC432 | L-6   | VR206       | B-1 |  |   |       |       |     |  |  |
|  | F-3  | IC435 | M-2   | VR207       | C-1 |  |   |       |       |     |  |  |
|  | D-3  | IC437 | L-2   | VR401       | J-5 |  |   |       |       |     |  |  |
|  | H-4  | IC438 | M-2   | VR402       | L-2 |  |   |       |       |     |  |  |
|  | F-5  | IC442 | M-6   | VR403       | M-5 |  |   |       |       |     |  |  |
|  | E-5  | IC443 | L-1   | VR405       | L-1 |  |   |       |       |     |  |  |
|  | G-4  | IC470 | K-3   | VR406       | L-1 |  |   |       |       |     |  |  |
|  | F-4  | IC474 | J-2   | VR408       | M-5 |  |   |       |       |     |  |  |
|  | E-4  | IC475 | J-1   | VR409       | L-2 |  |   |       |       |     |  |  |
|  | D-4  | IC476 | J-1   |             |     |  |   |       |       |     |  |  |
|  | G-4  | IC479 | L-4   |             |     |  |   |       |       |     |  |  |
|  | F-4  | IC480 | J-1   |             |     |  |   |       |       |     |  |  |
|  | Test Point   |       |       |             |     |  |   |       |       |     |  |  |
|  |  |       |       |             |     |  |   |       |       |     |  |  |
|  | IC38<br>IC39<br>IC40<br>IC41<br>IC42<br>IC43<br>IC44<br>IC45<br>IC46<br>IC47<br>IC48<br>IC49<br>IC50<br>IC51<br>IC56<br>IC58<br>IC202<br>IC203 | H-1   | TP1   | C-5         |     |  |   |       |       |     |  |  |
|  |  | G-2   | TP2   | C-2         |     |  |   |       |       |     |  |  |
|  |  | F-2   | TP201 | A-5         |     |  |   |       |       |     |  |  |
|  |  | E-2   | TP202 | A-5         |     |  |   |       |       |     |  |  |
|  |  | D-2   | TP203 | A-2         |     |  |   |       |       |     |  |  |
|  |  | G-1   | TP204 | B-3         |     |  |   |       |       |     |  |  |
|  |  | F-1   | TP205 | A-4         |     |  |   |       |       |     |  |  |
|  |  | E-1   | TP206 | A-3         |     |  |   |       |       |     |  |  |
|  |  | E-3   | TP207 | B-3         |     |  |   |       |       |     |  |  |
|  |  | C-4   | TP208 | A-4         |     |  |   |       |       |     |  |  |
|  |  | C-2   | TP210 | C-5         |     |  |   |       |       |     |  |  |
|  |  | C-3   | TP211 | C-4         |     |  |   |       |       |     |  |  |
|  |  | C-3   | TP212 | C-4         |     |  |   |       |       |     |  |  |
|  |  | C-2   | TP213 | C-6         |     |  |   |       |       |     |  |  |
|  |  | C-5   | TP214 | D-6         |     |  |   |       |       |     |  |  |
|  |  | D-3   | TP215 | D-6         |     |  |   |       |       |     |  |  |
|  |  | C-6   | TP412 | M-5         |     |  |   |       |       |     |  |  |
|  |  | B-4   | TP413 | L-6         |     |  |   |       |       |     |  |  |

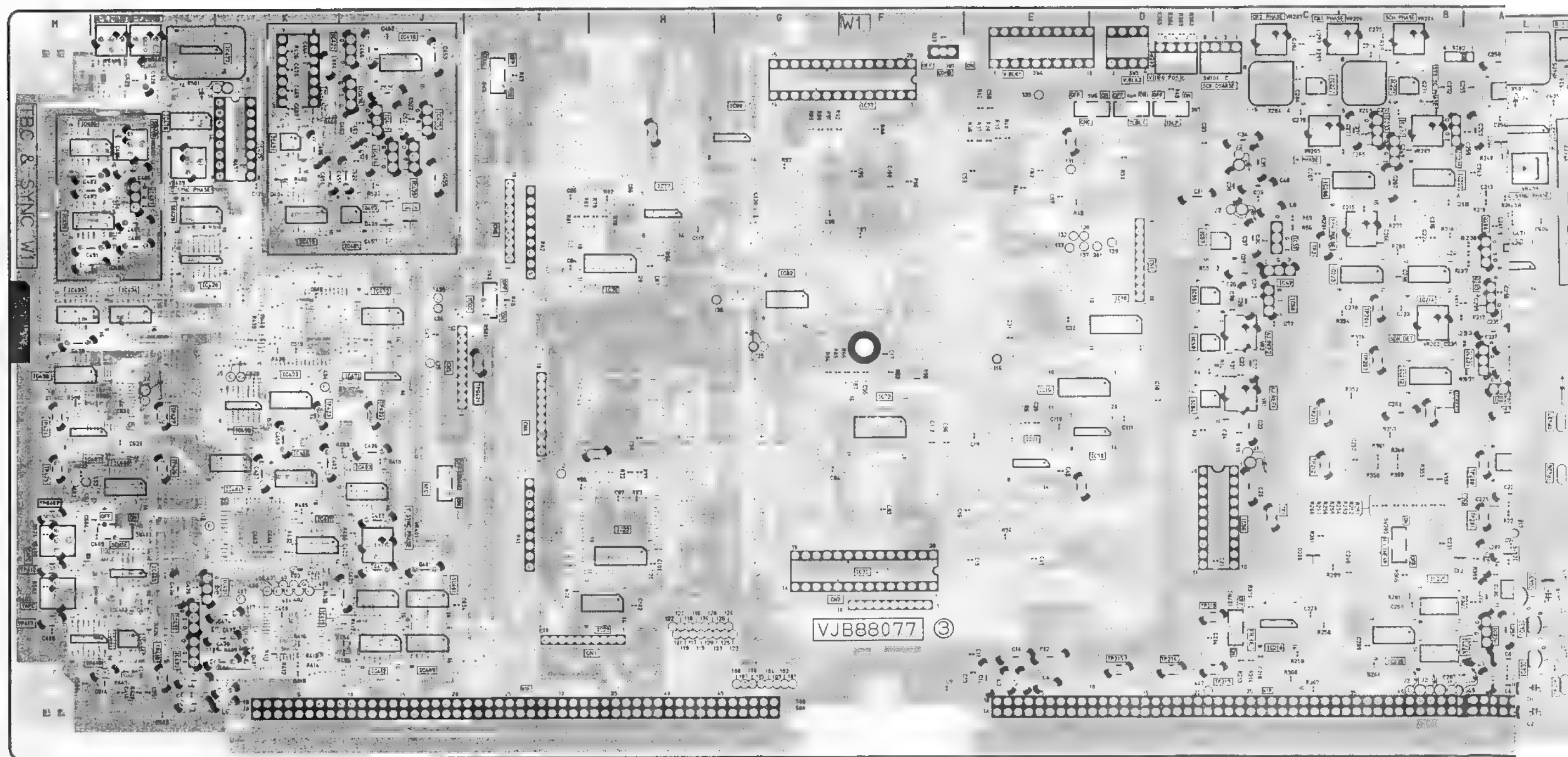


W1 (TBC & SYNC GEN) FOR AU-665/PE-P

| COMPONENT SIDE      |     |            |     |  | FOIL SIDE |            |     |  |     |  |     |  |  |
|---------------------|-----|------------|-----|--|-----------|------------|-----|--|-----|--|-----|--|--|
| Transistors         |     | IC229      | A-4 | TP426  | L-4       | Transistor |     | IC412  | J-6 | TP416  | L-6 |  |  |
|                     |     | IC230      | A-3 | TP427  | L-4       |            |     | IC413  | K-4 | TP417  | M-5 |  |  |
| Q201                | C-6 | IC231      | B-1 | TP GND   |           | Q203       | A-3 | IC415  | J-5 | TP422  | J-4 |  |  |
| Q202                | A-5 | IC232      | B-2 |  |           | Q204       | A-2 | IC418  | J-1 | TP423  | K-4 |  |  |
| Q203                | A-3 | IC233      | B-1 | TPG201 B-4<br>TPG401 J-3<br>TPG402 M-5   |           | Q402       | J-2 | IC419  | K-2 | TP424  | M-4 |  |  |
| Q204                | A-2 | IC402      | J-4 |  |           | Q404       | J-2 | IC421  | K-2 | TP425  | M-4 |  |  |
| Q400                | L-5 | IC405      | K-6 | Integrated Circuits  |           |            |     | IC422  | J-1 | TP426  | L-4 |  |  |
| Q403                | J-2 | IC410      | K-5 |  |           |            |     | IC423  | J-2 | TP427  | L-4 |  |  |
| Q405                | L-5 | IC416      | K-5 | Adjustments  |           |            |     | IC424  | K-1 | TP GND   |     |  |  |
| Q406                | L-5 | IC420      | K-2 |  |           |            |     | IC425  | K-2 |  |     |  |  |
| Integrated Circuits |     | IC422      | J-1 | VR1  | C-4       | IC18       | D-3 | IC428  | L-2 | TPG201   | B-4 |  |  |
|                     |     | IC423      | J-2 | VR2  | C-3       | IC19       | E-4 | IC429  | L-2 | TPG401   | J-3 |  |  |
|                     |     | IC424      | K-1 | VR201  | B-2       | IC22       | H-5 | IC430  | L-5 | TPG402   | M-5 |  |  |
|                     |     | IC425      | K-2 | VR202  | B-3       | IC23       | H-5 | IC431  | L-5 | Adjustments  |     |  |  |
|                     |     | IC426      | L-3 | VR203  | B-2       | IC35       | F-5 | IC432  | L-6 |  |     |  |  |
| IC4                 | D-5 | IC427      | L-1 | VR204  | B-1       | IC36       | H-3 | IC433  | M-3 | VR1 C-4<br>VR2 C-3   |     |  |  |
| IC5                 | D-5 | IC430      | L-5 | VR205  | C-2       | IC37       | F-1 | IC434  | L-3 |  |     |  |  |
| IC6                 | E-5 | IC431      | L-5 | VR206  | B-1       | IC49       | C-3 | IC436  | L-2 | VR201  | B-2 |  |  |
| IC7                 | E-4 | IC432      | L-6 | VR207  | C-1       | IC50       | C-3 | IC437  | L-2 | VR202  | B-3 |  |  |
| IC9                 | E-5 | IC435      | M-2 | VR401  | J-5       | IC51       | C-2 | IC439  | M-2 | VR203  | B-2 |  |  |
| IC11                | D-2 | IC437      | L-2 | VR402  | L-2       | IC54       | D-4 | IC441  | L-6 | VR204  | B-1 |  |  |
| IC12                | E-5 | IC438      | M-2 | VR403  | M-5       | IC55       | D-3 | IC444  | L-6 | VR205  | C-2 |  |  |
| IC17                | E-3 | IC442      | M-6 | VR405  | L-1       | IC56       | C-5 | IC445  | L-5 | VR206  | B-1 |  |  |
| IC20                | G-3 | IC443      | L-1 | VR406  | L-1       | IC57       | C-2 | IC446  | L-4 | VR207  | C-1 |  |  |
| IC21                | F-3 | IC470      | K-3 | VR409  | L-2       | IC59       | D-3 | IC471  | J-3 | VR401  | J-5 |  |  |
| IC24                | H-5 | IC474      | J-2 | S W  |           | IC70       | D-4 | IC472  | J-3 | VR402  | L-2 |  |  |
| IC25                | H-2 | IC475      | J-1 |  |           | IC71       | E-4 | IC473  | K-4 | VR403  | M-5 |  |  |
| IC26                | H-1 | IC476      | J-1 | SW1 F-1<br>SW2 I-3<br>SW3 I-1<br>SW4 E-1<br>SW5 D-1<br>SW6 D-1<br>SW7 D-1<br>SW8 D-1<br>SW201 C-5<br>SW203 D-1<br>SW204 C-1<br>SW205 B-5<br>SW401 L-5<br>SW402 J-4   |           | IC72       | F-4 | IC474  | J-2 | VR405  | L-1 |  |  |
| IC27                | H-1 | IC479      | L-4 |  |           | IC77       | H-2 | IC475  | J-1 | VR406  | L-1 |  |  |
| IC28                | G-4 | IC480      | J-1 | Test Point   |           | IC80       | G-1 | IC476  | J-1 | VR408  | M-5 |  |  |
| IC29                | G-5 | IC500      | K-4 |  |           | IC82       | G-3 | IC477  | L-2 | VR409  | L-2 |  |  |
| IC30                | H-4 | Test Point |     | TP1 C-5<br>TP2 C-2<br>TP201 A-5<br>TP202 A-5<br>TP203 A-2<br>TP204 B-3<br>TP205 A-4<br>TP206 A-3<br>TP207 B-3<br>TP208 A-4<br>TP210 C-5<br>TP211 C-4<br>TP212 C-4<br>TP213 C-6<br>TP214 D-6<br>TP215 D-6<br>TP412 M-5<br>TP413 L-6<br>TP416 L-6<br>TP417 M-5<br>TP422 J-4<br>TP423 K-4<br>TP424 M-4<br>TP425 M-4 |           | IC82       | G-3 | IC478  | L-1 | S W  |     |  |  |
| IC31                | G-1 |            |     |  |           | IC201      | A-5 | IC479  | L-1 |  |     |  |  |
| IC32                | H-2 | Test Point |     |  |           | IC206      | B-2 | IC480  | J-1 | SW1 F-1<br>SW2 I-3<br>SW3 I-1<br>SW4 E-1<br>SW5 D-1<br>SW6 D-1<br>SW7 D-1<br>SW8 D-1<br>SW201 C-5<br>SW203 D-1<br>SW204 C-1<br>SW205 B-5<br>SW401 L-5<br>SW402 J-4   |     |  |  |
| IC33                | F-4 |            |     |  |           | IC207      | B-2 | IC481  | J-2 |  |     |  |  |
| IC34                | F-2 | Test Point |     |  |           | IC209      | A-4 | IC497  | M-4 | TP1 C-5<br>TP2 C-2<br>TP201 A-5<br>TP202 A-5<br>TP203 A-2<br>TP204 B-3<br>TP205 A-4<br>TP206 A-3<br>TP207 B-3<br>TP208 A-4<br>TP210 D-5<br>TP211 C-4<br>TP212 C-4<br>TP213 D-6<br>TP214 D-6<br>TP215 D-6<br>TP412 M-5<br>TP413 L-6 |     |  |  |
| IC35                | F-5 |            |     |  |           | IC211      | A-2 | IC498  | M-3 |  |     |  |  |
| IC37                | F-1 | Test Point |     |  |           | IC212      | B-3 | IC499  | K-4 | SW1 F-1<br>SW2 I-3<br>SW3 I-1<br>SW4 E-1<br>SW5 D-1<br>SW6 D-1<br>SW7 D-1<br>SW8 D-1<br>SW201 C-5<br>SW203 D-1<br>SW204 C-1<br>SW205 B-5<br>SW401 L-5<br>SW402 J-4   |     |  |  |
| IC45                | E-2 |            |     |  |           | IC214      | B-3 | Test Point   |     |  |     |  |  |
| IC46                | D-4 | Test Point |     |  |           | IC216      | A-1 | TP1 C-5<br>TP2 C-2<br>TP201 A-5<br>TP202 A-5<br>TP203 A-2<br>TP204 B-3<br>TP205 A-4<br>TP206 A-3<br>TP207 B-3<br>TP208 A-4<br>TP210 D-5<br>TP211 C-4<br>TP212 C-4<br>TP213 D-6<br>TP214 D-6<br>TP215 D-6<br>TP412 M-5<br>TP413 L-6 |     |  |     |  |  |
| IC47                | D-2 |            |     |  |           | IC217      | A-1 |  |     | Test Point   |     |  |  |
| IC48                | D-2 | Test Point |     |  |           | IC218      | C-5 | SW1 F-1<br>SW2 I-3<br>SW3 I-1<br>SW4 E-1<br>SW5 D-1<br>SW6 D-1<br>SW7 D-1<br>SW8 D-1<br>SW201 C-5<br>SW203 D-1<br>SW204 C-1<br>SW205 B-5<br>SW401 L-5<br>SW402 J-4   |     |  |     |  |  |
| IC49                | C-3 |            |     |  |           | IC221      | B-1 |  |     | Test Point   |     |  |  |
| IC50                | C-3 | Test Point |     |  |           | IC222      | C-1 | TP1 C-5<br>TP2 C-2<br>TP201 A-5<br>TP202 A-5<br>TP203 A-2<br>TP204 B-3<br>TP205 A-4<br>TP206 A-3<br>TP207 B-3<br>TP208 A-4<br>TP210 D-5<br>TP211 C-4<br>TP212 C-4<br>TP213 D-6<br>TP214 D-6<br>TP215 D-6<br>TP412 M-5<br>TP413 L-6 |     |  |     |  |  |
| IC51                | C-2 |            |     |  |           | IC223      | B-3 |  |     | Test Point   |     |  |  |
| IC53                | E-5 | Test Point |     |  |           | IC224      | B-6 | SW1 F-1<br>SW2 I-3<br>SW3 I-1<br>SW4 E-1<br>SW5 D-1<br>SW6 D-1<br>SW7 D-1<br>SW8 D-1<br>SW201 C-5<br>SW203 D-1<br>SW204 C-1<br>SW205 B-5<br>SW401 L-5<br>SW402 J-4   |     |  |     |  |  |
| IC56                | C-5 |            |     |  |           | IC225      | B-5 |  |     | Test Point   |     |  |  |
| IC58                | D-2 | Test Point |     |  |           | IC226      | B-6 | TP1 C-5<br>TP2 C-2<br>TP201 A-5<br>TP202 A-5<br>TP203 A-2<br>TP204 B-3<br>TP205 A-4<br>TP206 A-3<br>TP207 B-3<br>TP208 A-4<br>TP210 D-5<br>TP211 C-4<br>TP212 C-4<br>TP213 D-6<br>TP214 D-6<br>TP215 D-6<br>TP412 M-5<br>TP413 L-6 |     |  |     |  |  |
| IC81                | F-3 |            |     |  |           | IC228      | A-6 |  |     | Test Point   |     |  |  |
| IC83                | G-3 | Test Point |     |  |           | IC229      | A-4 | SW1 F-1<br>SW2 I-3<br>SW3 I-1<br>SW4 E-1<br>SW5 D-1<br>SW6 D-1<br>SW7 D-1<br>SW8 D-1<br>SW201 C-5<br>SW203 D-1<br>SW204 C-1<br>SW205 B-5<br>SW401 L-5<br>SW402 J-4   |     |  |     |  |  |
| IC202               | C-6 |            |     |  |           | IC230      | A-3 |  |     | Test Point   |     |  |  |
| IC203               | B-4 | Test Point |     |  |           | IC231      | B-2 | TP1 C-5<br>TP2 C-2<br>TP201 A-5<br>TP202 A-5<br>TP203 A-2<br>TP204 B-3<br>TP205 A-4<br>TP206 A-3<br>TP207 B-3<br>TP208 A-4<br>TP210 D-5<br>TP211 C-4<br>TP212 C-4<br>TP213 D-6<br>TP214 D-6<br>TP215 D-6<br>TP412 M-5<br>TP413 L-6 |     |  |     |  |  |
| IC204               | B-5 |            |     |  |           | IC232      | B-2 |  |     | Test Point   |     |  |  |
| IC205               | A-2 | Test Point |     |  |           | IC233      | B-1 | SW1 F-1<br>SW2 I-3<br>SW3 I-1<br>SW4 E-1<br>SW5 D-1<br>SW6 D-1<br>SW7 D-1<br>SW8 D-1<br>SW201 C-5<br>SW203 D-1<br>SW204 C-1<br>SW205 B-5<br>SW401 L-5<br>SW402 J-4   |     |  |     |  |  |
| IC208               | B-3 |            |     |  |           | IC401      | J-5 |  |     | Test Point   |     |  |  |
| IC210               | A-4 | Test Point |     |  |           | IC403      | J-4 | TP1 C-5<br>TP2 C-2<br>TP201 A-5<br>TP202 A-5<br>TP203 A-2<br>TP204 B-3<br>TP205 A-4<br>TP206 A-3<br>TP207 B-3<br>TP208 A-4<br>TP210 D-5<br>TP211 C-4<br>TP212 C-4<br>TP213 D-6<br>TP214 D-6<br>TP215 D-6<br>TP412 M-5<br>TP413 L-6 |     |  |     |  |  |
| IC213               | B-2 |            |     |  |           | IC404      | K-4 |  |     | Test Point   |     |  |  |
| IC220               | B-3 | Test Point |     |  |           | IC409      | J-6 | SW1 F-1<br>SW2 I-3<br>SW3 I-1<br>SW4 E-1<br>SW5 D-1<br>SW6 D-1<br>SW7 D-1<br>SW8 D-1<br>SW201 C-5<br>SW203 D-1<br>SW204 C-1<br>SW205 B-5<br>SW401 L-5<br>SW402 J-4   |     |  |     |  |  |
| IC228               | A-6 |            |     |  |           | IC411      | K-5 |  |     |  |     |  |  |

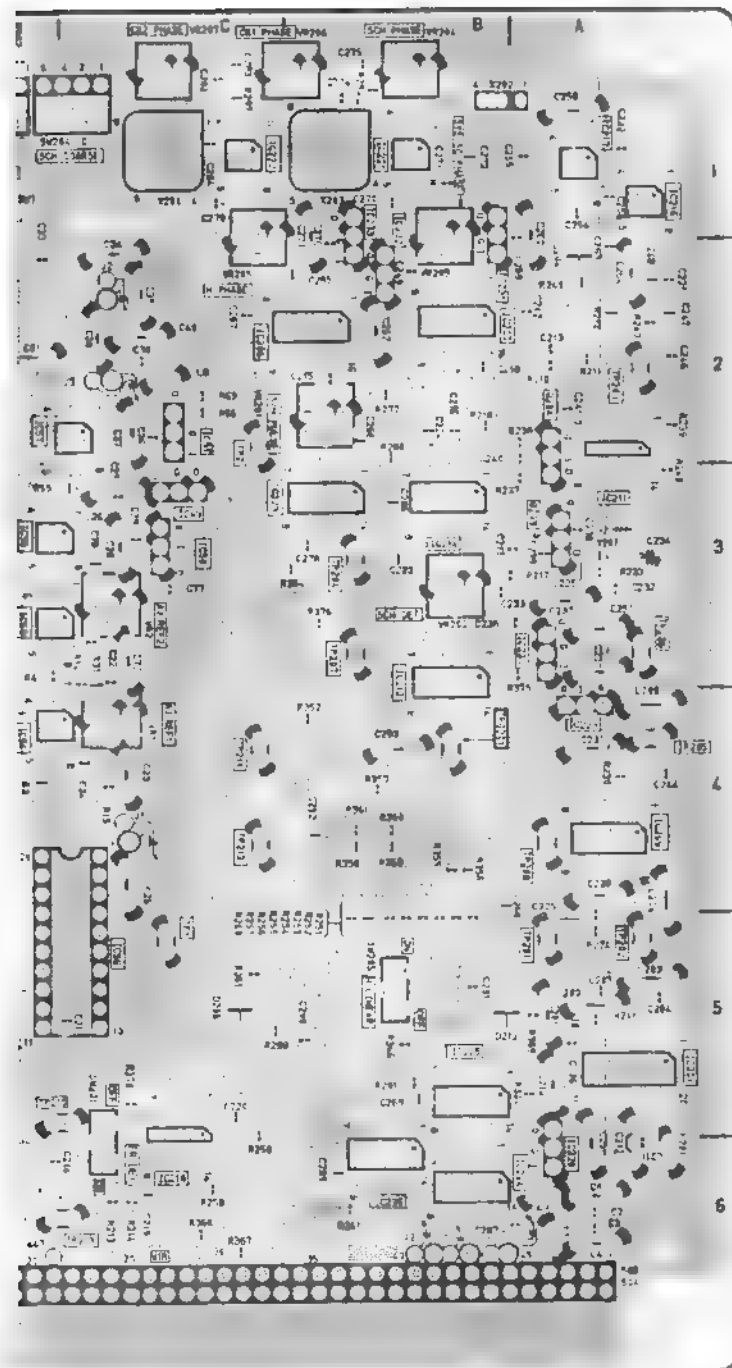
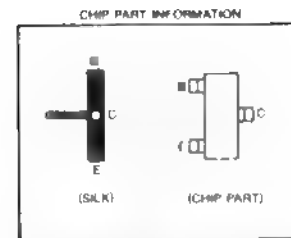
# W1 (TBC & SYNC GEN) P.C.BOARD

| MODEL | AU-665 | AU-65     | AU-63          | AU-62 |
|-------|--------|-----------|----------------|-------|
| TYPE  | NTSC   | VEP88077A | See Page 5-3-2 |       |
| PAL   |        |           |                |       |

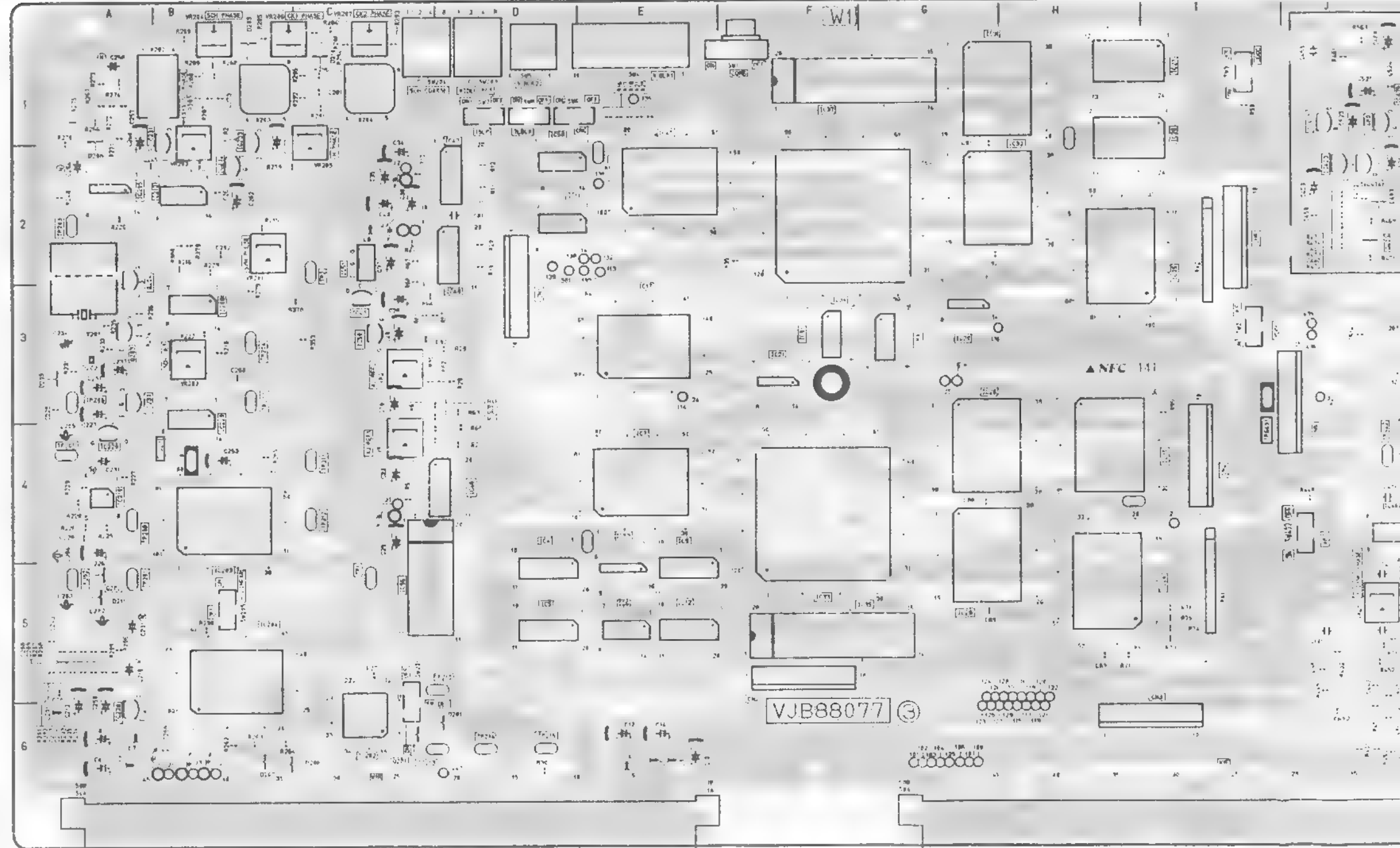


(FOIL S POND)





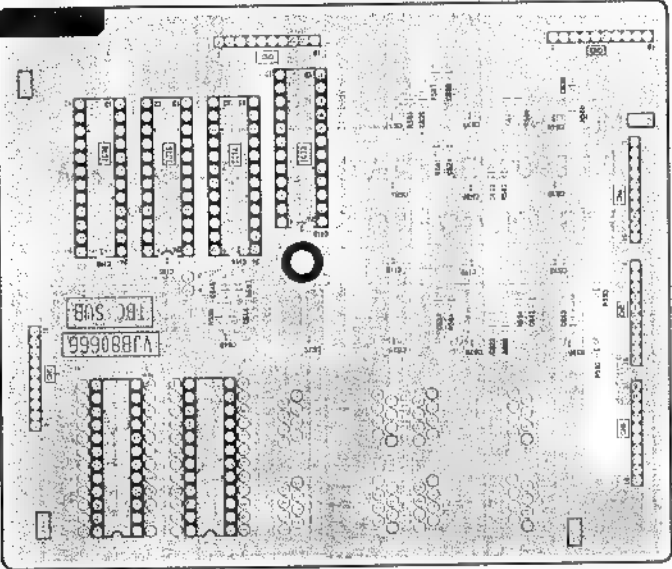
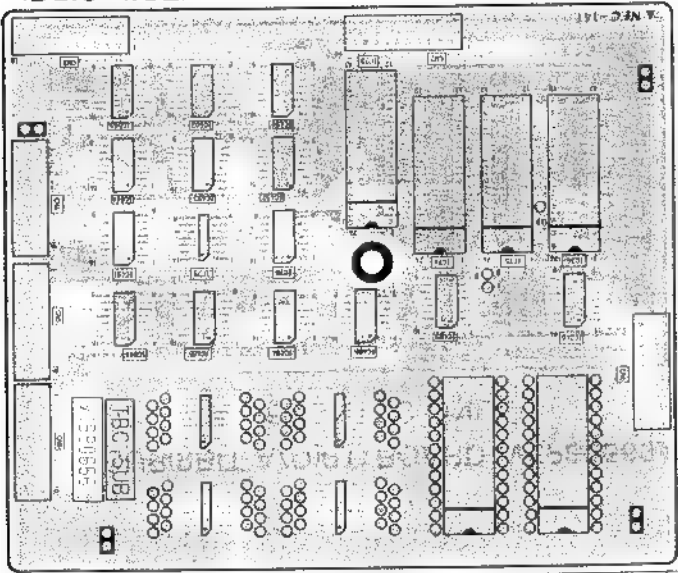
(FOIL SIDE)



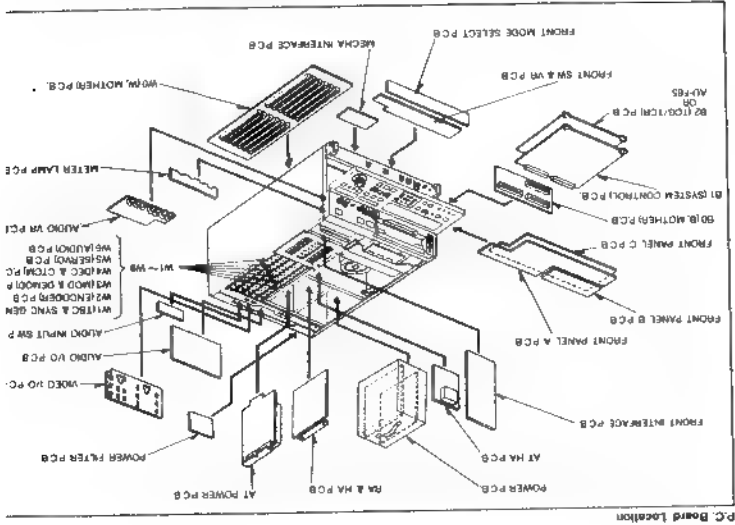
| MODEL | AU-665    | AU-65    | AU-63    | AU-62    |
|-------|-----------|----------|----------|----------|
| TYPE  | NTSC      | PAL      | NTSC     | PAL      |
|       | VEP80666A | Not Used | Not Used | Not Used |
|       | Not Used  | Not Used | Not Used | Not Used |

W1 SUB P.C. BOARD

W1 TBC & SYNC GEN P.C.I

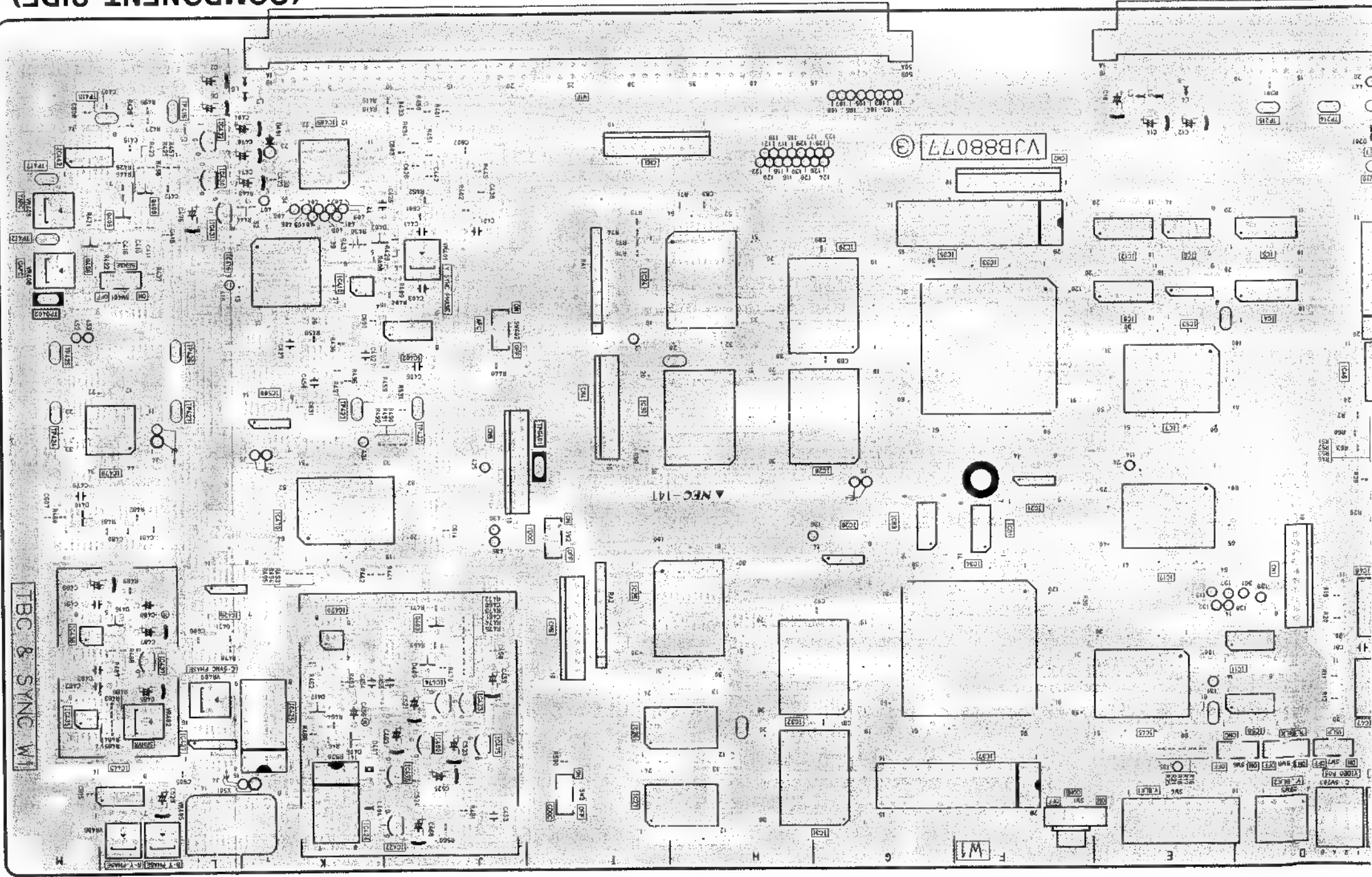


(COMPONENT SIDE)



5-3-5 REVERSE SIDE W2 ENCODER P.C. BOARD

(COMPONENT SIDE)

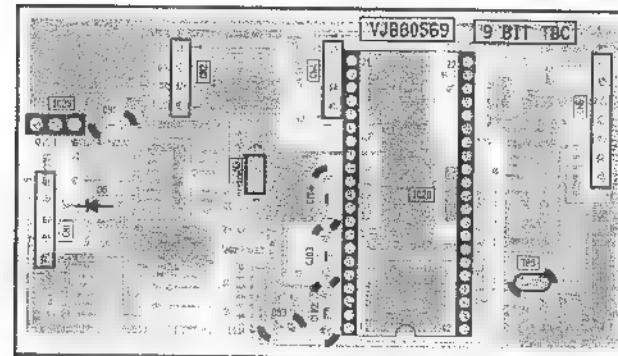


# W2(ENCODER)P.C.BOARD

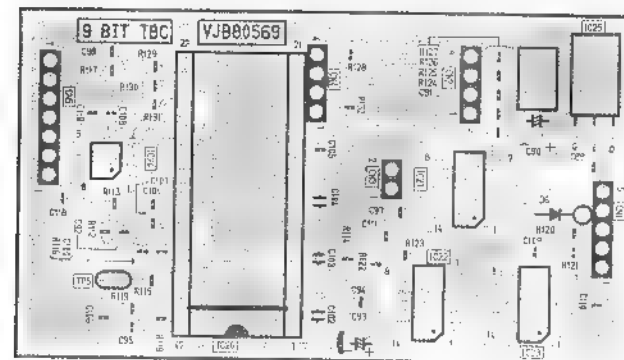
| MODEL | AU-665 | AU-65     | AU-63     | AU-62     |
|-------|--------|-----------|-----------|-----------|
| TYPE  | NTSC   | VEP88063B | VEP88063A | VEP88063A |
|       | PAL    | VEP88063E | VEP88063C | VEP88063C |

## W2 SUB(9BIT A/D)P.C.BOARD (VEP80569A)

AU-665 NTSC ONLY



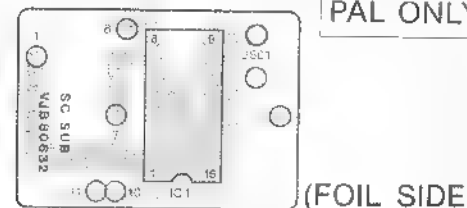
(FOIL SIDE)



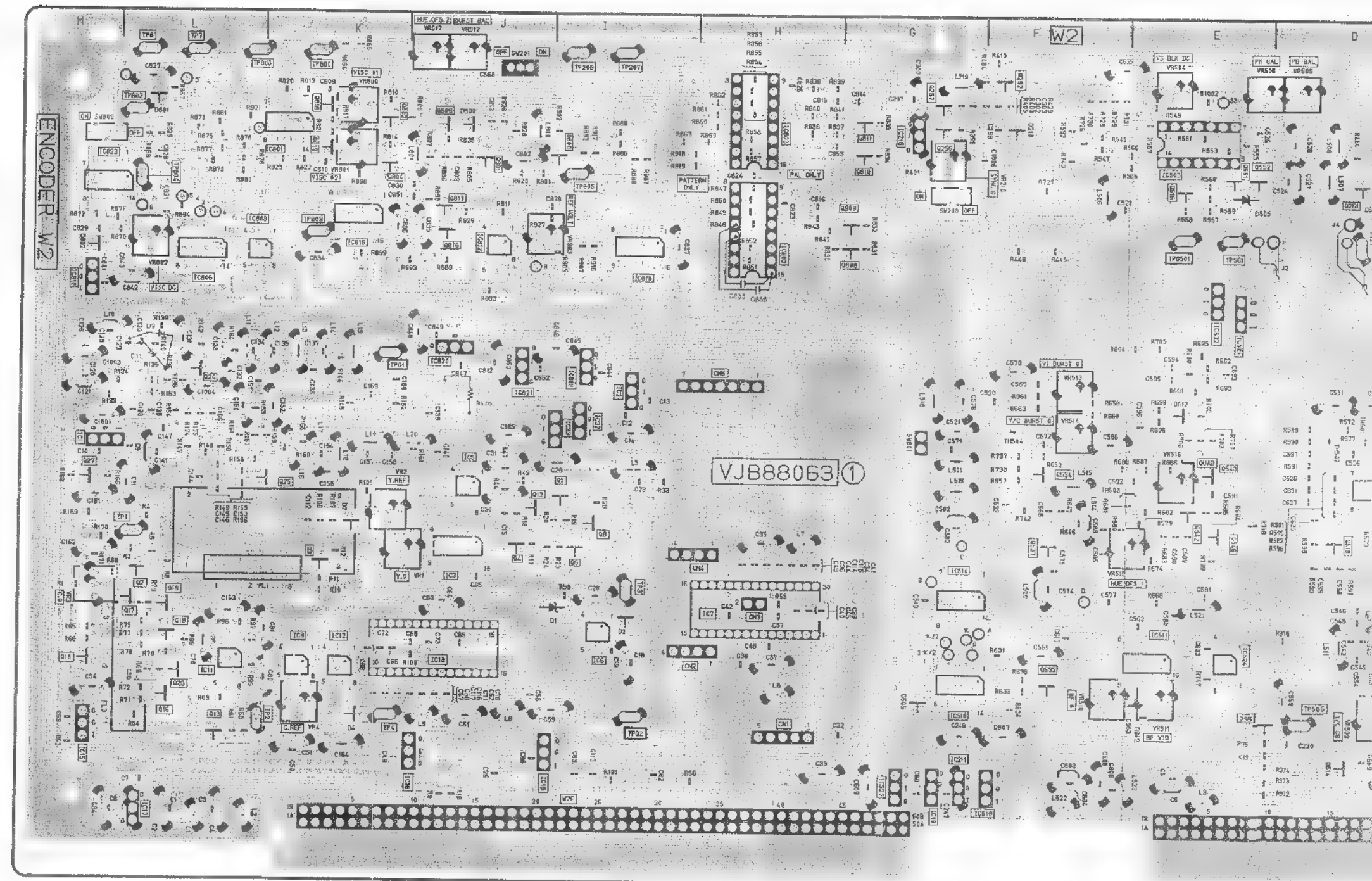
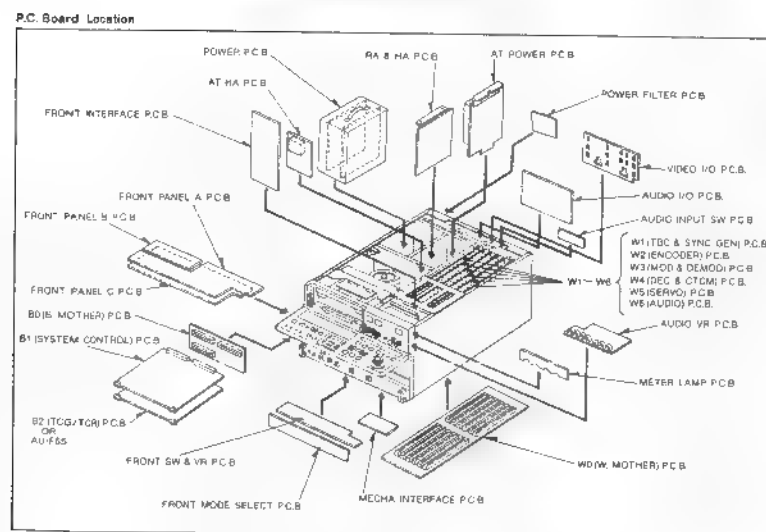
(COMPONENT SIDE)

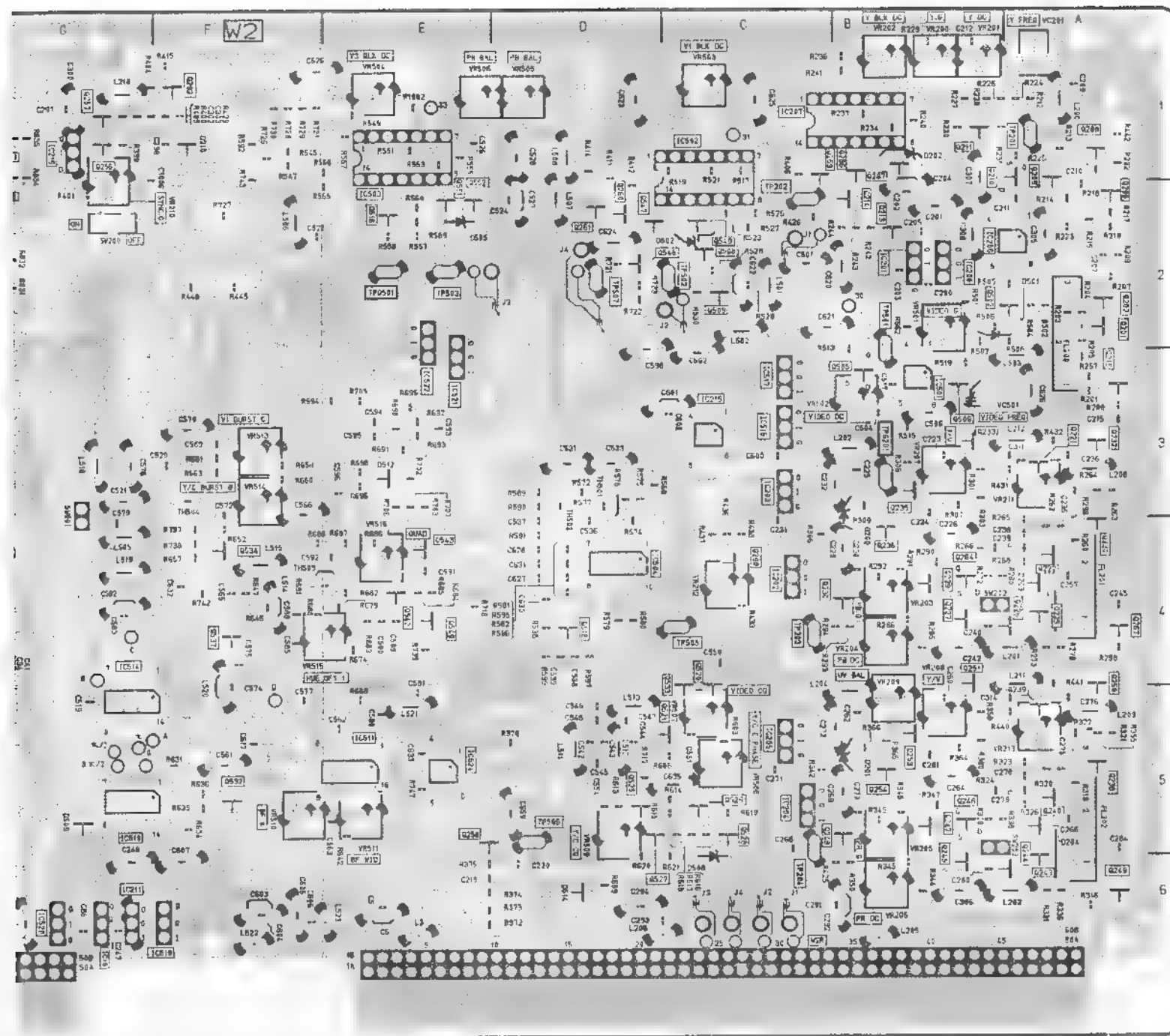
## W2 SUB (SC) P.C.BOARD (VEP80632A)

PAL ONLY

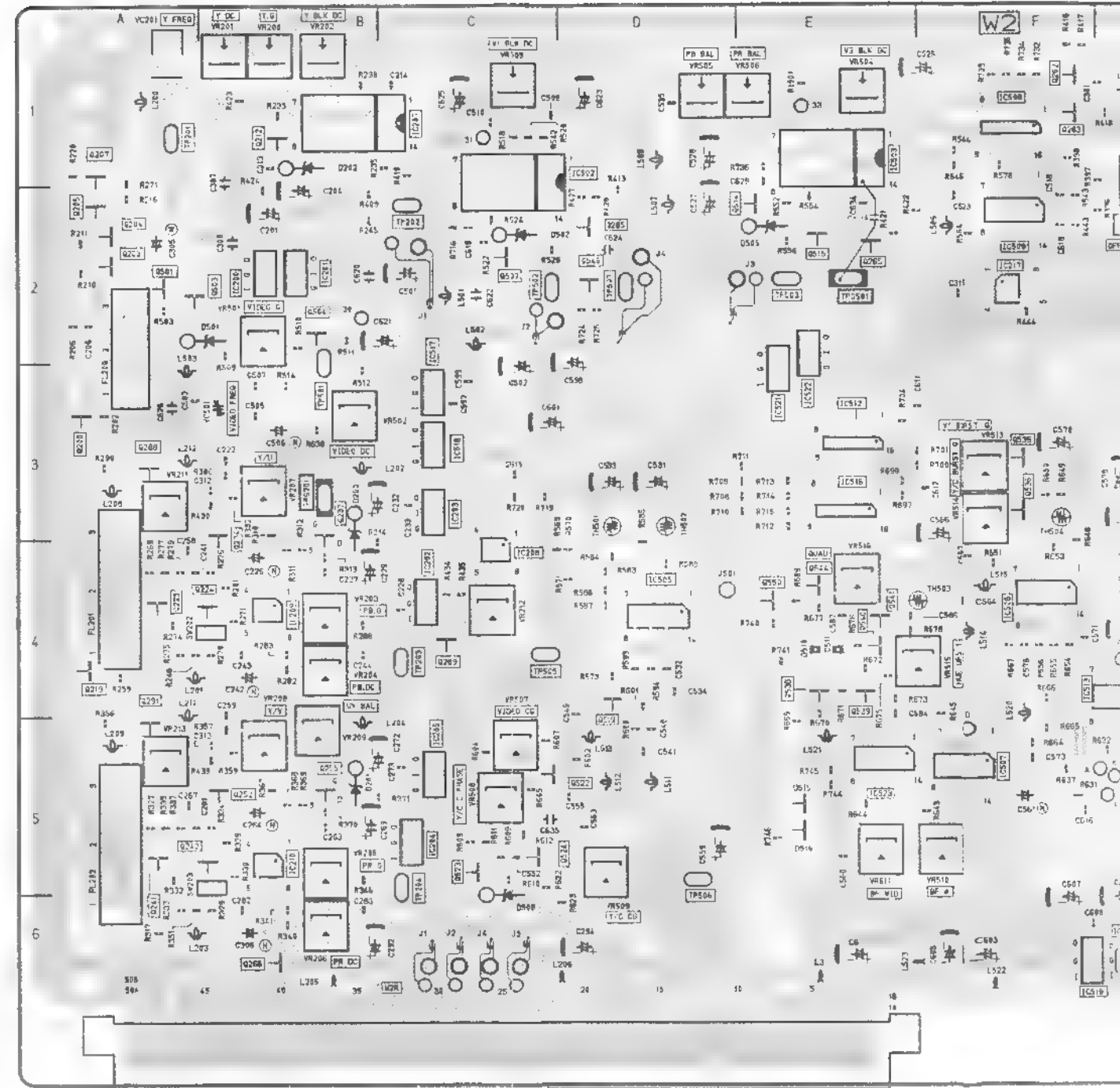
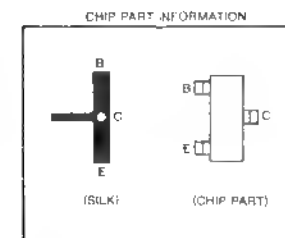


(FOIL SIDE)



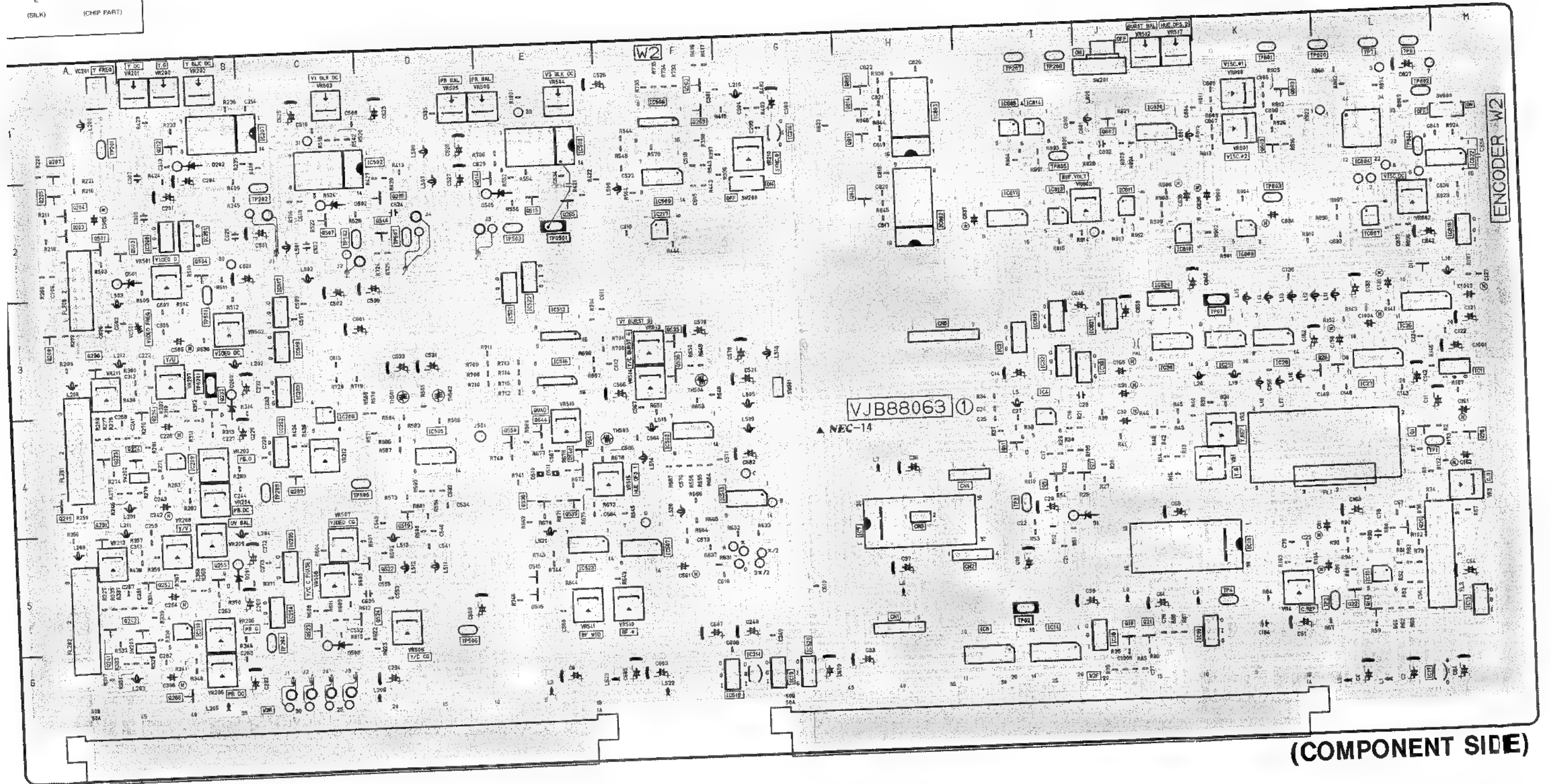
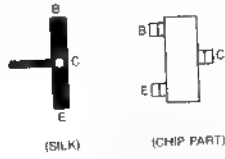


(FOIL SIDE)





CHIP PART INFORMATION



(COMPONENT SIDE)

# W2 (ENCODER)

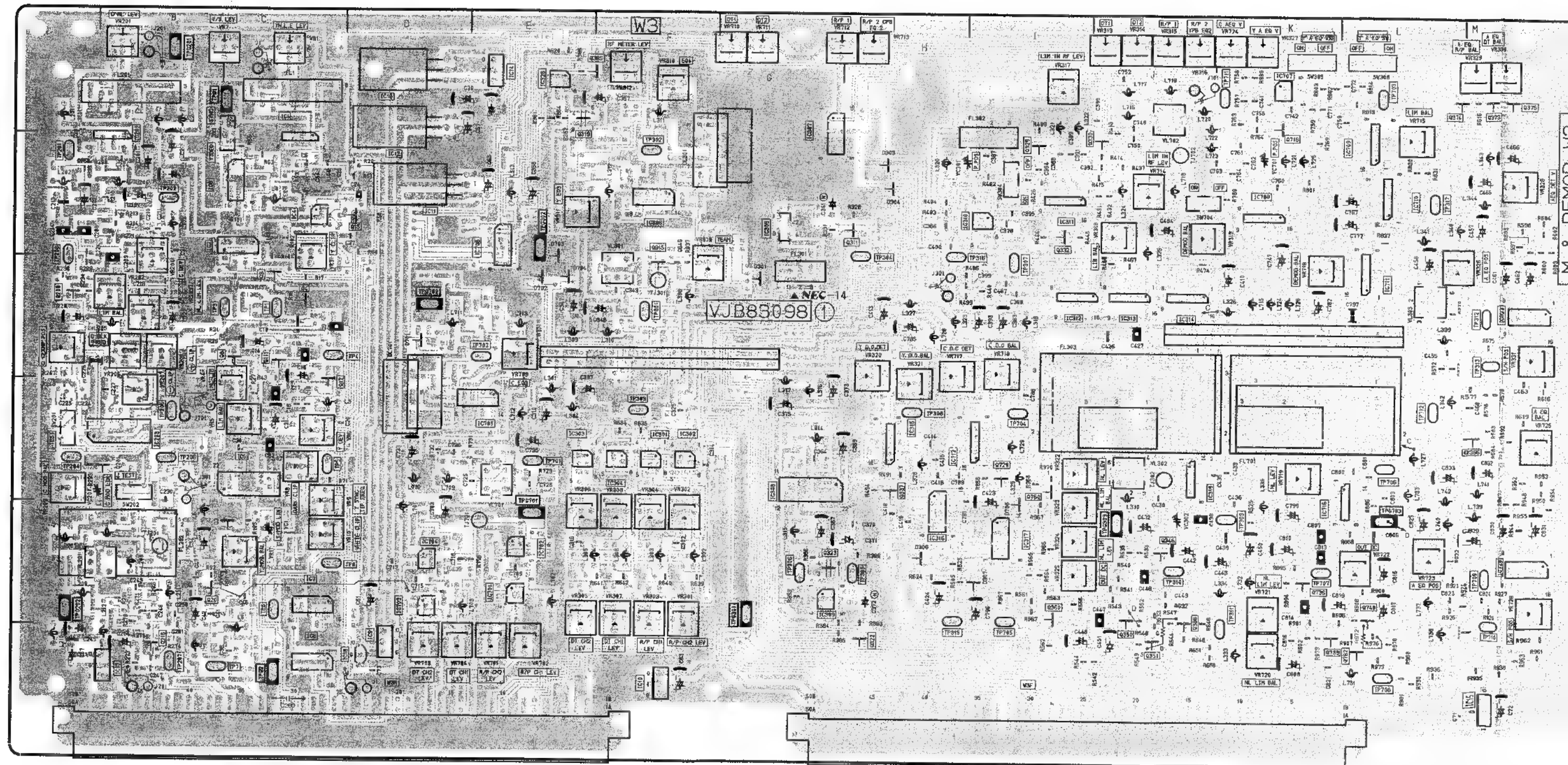
| COMPONENT SIDE |  |            |     |             |     |        |     |            |     | FOIL SIDE  |     |       |     |  |  |  |  |  |  |
|----------------|--|------------|-----|-------------|-----|--------|-----|------------|-----|------------|-----|-------|-----|--|--|--|--|--|--|
| Transistors    |  | Q813       | H-2 | IC802       | H-2 | VR201  | B-1 | Transistor |     | Q259       | C-1 | IC215 | C-3 |  |  |  |  |  |  |
|                |  | Q814       | H-1 | IC803       | H-1 | VR202  | B-1 |            |     | Q260       | D-2 | IC501 | B-3 |  |  |  |  |  |  |
|                |  | Q815       | H-1 | IC804       | L-1 | VR203  | B-4 | Q2         | L-4 | Q261       | D-2 | IC504 | D-4 |  |  |  |  |  |  |
|                |  | Integrated |     | IC805       | I-1 | VR204  | B-4 | Q3         | K-4 | Q267       | A-4 | IC510 | G-5 |  |  |  |  |  |  |
|                |  | Circuits   |     | IC807       | L-2 | VR205  | B-5 | Q4         | J-4 | Q284       | B-4 | IC511 | E-5 |  |  |  |  |  |  |
|                |  |            |     | IC809       | K-2 | VR206  | B-6 | Q5         | I-4 | Q286       | B-1 | IC514 | G-5 |  |  |  |  |  |  |
|                |  |            |     | IC810       | J-2 | VR207  | B-3 | Q6         | I-4 | Q287       | B-1 | IC524 | E-5 |  |  |  |  |  |  |
|                |  |            |     | IC811       | J-2 | VR208  | B-5 | Q8         | I-4 | Q290       | C-4 | IC801 | K-1 |  |  |  |  |  |  |
|                |  | IC1        | M-4 | IC813       | I-2 | VR209  | B-5 | Q12        | J-4 | Q292       | F-1 | IC806 | L-2 |  |  |  |  |  |  |
|                |  | IC2        | I-3 | IC814       | I-1 | VR210  | G-1 | Q13        | L-6 | Q502       | A-2 | IC808 | L-2 |  |  |  |  |  |  |
|                |  | IC4        | I-4 | IC817       | I-2 | VR211  | A-3 | Q15        | M-5 | Q505       | B-3 | IC812 | J-2 |  |  |  |  |  |  |
|                |  | IC7        | H-5 | IC818       | M-2 | VR212  | C-4 | Q16        | L-5 | Q506       | B-3 | IC815 | K-2 |  |  |  |  |  |  |
|                |  | IC8        | I-6 | IC819       | I-3 | VR213  | A-5 | Q17        | L-5 | Q508       | C-2 | IC816 | I-2 |  |  |  |  |  |  |
|                |  | IC10       | L-5 | IC820       | J-3 | VR501  | B-2 | Q18        | L-5 | Q509       | C-2 | IC823 | M-2 |  |  |  |  |  |  |
|                |  | IC13       | K-5 | IC821       | J-3 | VR502  | B-3 | Q19        | L-5 | Q516       | E-2 |       |     |  |  |  |  |  |  |
|                |  | IC14       | I-6 | IC822       | M-2 | VR503  | C-1 | Q23        | L-5 | Q518       | D-4 |       |     |  |  |  |  |  |  |
|                |  | IC15       | M-6 | Test Points |     | VR504  | E-1 | Q24        | L-3 | Q520       | C-4 |       |     |  |  |  |  |  |  |
|                |  | IC16       | J-6 |             |     | VR505  | D-1 | Q25        | K-4 | Q521       | C-5 |       |     |  |  |  |  |  |  |
|                |  | IC17       | L-6 |             |     | VR506  | E-1 | Q27        | M-4 | Q525       | D-5 |       |     |  |  |  |  |  |  |
|                |  | IC18       | J-6 | TP1         | L-4 | VR507  | C-5 | Q201       | A-2 | Q526       | C-5 |       |     |  |  |  |  |  |  |
|                |  | IC19       | G-6 | TP2         | K-5 | VR508  | C-5 | Q202       | A-2 | Q527       | D-5 |       |     |  |  |  |  |  |  |
|                |  | IC26       | L-3 | TP3         | I-5 | VR509  | D-5 | Q206       | A-2 | Q528       | C-5 |       |     |  |  |  |  |  |  |
|                |  | IC27       | L-3 | TP4         | K-5 | VR510  | F-5 | Q208       | A-1 | Q532       | F-5 |       |     |  |  |  |  |  |  |
|                |  | IC28       | K-3 | TP6         | L-1 | VR511  | B-5 | Q209       | A-1 | Q533       | C-4 |       |     |  |  |  |  |  |  |
|                |  | IC29       | K-3 | TP7         | L-1 | VR512  | J-1 | Q210       | A-1 | Q534       | F-4 |       |     |  |  |  |  |  |  |
|                |  | IC30       | J-3 | TP201       | A-1 | VR513  | F-3 | Q211       | B-1 | Q537       | F-4 |       |     |  |  |  |  |  |  |
|                |  | IC32       | I-3 | TP202       | C-2 | VR514  | F-3 | Q213       | B-2 | Q542       | E-4 |       |     |  |  |  |  |  |  |
|                |  | IC33       | I-3 | TP203       | C-4 | VR515  | F-4 | Q214       | B-2 | Q543       | E-4 |       |     |  |  |  |  |  |  |
|                |  | IC200      | B-2 | TP204       | C-5 | VR516  | E-4 | Q215       | A-3 | Q545       | D-2 |       |     |  |  |  |  |  |  |
|                |  | IC201      | B-2 | TP206       | I-1 | VR517  | J-1 | Q220       | A-4 | Q547       | D-2 |       |     |  |  |  |  |  |  |
|                |  | IC202      | C-4 | TP207       | I-1 | VR800  | K-1 | Q221       | A-3 | Q548       | C-2 |       |     |  |  |  |  |  |  |
|                |  | IC203      | C-3 | TP501       | B-3 | VR801  | K-1 | Q222       | A-4 | Q549       | E-4 |       |     |  |  |  |  |  |  |
|                |  | IC204      | C-5 | TP502       | C-2 | VR802  | L-2 | Q225       | A-4 | Q551       | E-2 |       |     |  |  |  |  |  |  |
|                |  | IC205      | C-5 | TP503       | E-2 | VR803  | J-2 | Q226       | A-4 | Q552       | E-2 |       |     |  |  |  |  |  |  |
|                |  | IC207      | B-1 | TP505       | C-4 | VR805  | K-2 | Q227       | B-4 | Q800       | I-1 |       |     |  |  |  |  |  |  |
|                |  | IC208      | C-4 | TP506       | D-5 | Others |     | Q229       | B-4 | Q801       | J-2 |       |     |  |  |  |  |  |  |
|                |  | IC209      | B-4 | TP507       | D-2 |        |     | Q230       | B-4 | Q802       | K-1 |       |     |  |  |  |  |  |  |
|                |  | IC210      | B-5 | TP800       | L-1 | VC201  | A-1 | Q232       | A-3 | Q804       | K-2 |       |     |  |  |  |  |  |  |
|                |  | IC211      | G-6 | TP801       | K-1 | VC501  | B-3 | Q233       | B-3 | Q806       | J-1 |       |     |  |  |  |  |  |  |
|                |  | IC216      | G-1 | TP802       | L-1 |        |     | Q235       | B-3 | Q808       | G-2 |       |     |  |  |  |  |  |  |
|                |  | IC217      | F-2 | TP803       | K-2 |        |     | Q236       | B-4 | Q809       | G-2 |       |     |  |  |  |  |  |  |
|                |  | IC502      | C-1 | TP804       | L-2 | CN1    | H-6 | Q238       | A-5 | Q810       | G-1 |       |     |  |  |  |  |  |  |
|                |  | IC503      | E-1 | TP805       | I-2 | CN2    | H-5 | Q239       | A-5 | Q811       | G-1 |       |     |  |  |  |  |  |  |
|                |  | IC505      | D-4 | TP GND      |     | CN3    | H-5 | Q240       | A-5 | Q816       | J-2 |       |     |  |  |  |  |  |  |
|                |  | IC506      | F-1 |             |     | CN4    | H-4 | Q243       | A-6 | Q817       | J-2 |       |     |  |  |  |  |  |  |
|                |  | IC507      | F-5 |             |     | CN5    | H-3 | Q244       | A-5 | Q818       | K-1 |       |     |  |  |  |  |  |  |
|                |  | IC508      | F-4 |             |     |        |     | Q245       | B-6 | Q819       | K-1 |       |     |  |  |  |  |  |  |
|                |  | IC509      | F-2 | TPG1        | K-3 |        |     | Q246       | B-5 | Integrated |     |       |     |  |  |  |  |  |  |
|                |  | IC512      | E-3 | TPG2        | I-5 |        |     | Q247       | B-5 | Circuits   |     |       |     |  |  |  |  |  |  |
|                |  | IC513      | G-4 | TPG201      | B-3 |        |     | Q248       | B-5 |            |     |       |     |  |  |  |  |  |  |
|                |  | IC516      | E-3 | TPG501      | E-2 |        |     | Q249       | A-6 |            |     |       |     |  |  |  |  |  |  |
|                |  | IC517      | C-3 | Adjustments |     |        |     | Q250       | A-4 |            |     |       |     |  |  |  |  |  |  |
|                |  | IC518      | C-3 |             |     |        |     | Q251       | B-4 |            |     |       |     |  |  |  |  |  |  |
|                |  | IC519      | F-6 |             |     |        |     | Q253       | B-5 |            |     |       |     |  |  |  |  |  |  |
|                |  | IC520      | G-6 | VR1         | K-4 |        |     | Q254       | B-5 |            |     |       |     |  |  |  |  |  |  |
|                |  | IC521      | E-3 | VR2         | K-4 |        |     | Q256       | G-1 |            |     |       |     |  |  |  |  |  |  |
|                |  | IC522      | E-2 | VR3         | M-5 |        |     | Q257       | G-1 |            |     |       |     |  |  |  |  |  |  |
|                |  | IC823      | E-5 | VR4         | K-5 |        |     | Q258       | E-5 |            |     |       |     |  |  |  |  |  |  |
|                |  | IC800      | J-1 | VR200       | B-1 |        |     |            |     |            |     |       |     |  |  |  |  |  |  |

# W3 (MOD & DEMOD)

| COMPONENT SIDE      |     |            |     |             |     |        |     |             |     | FOIL SIDE |     |                     |     |  |  |  |  |  |  |
|---------------------|-----|------------|-----|-------------|-----|--------|-----|-------------|-----|-----------|-----|---------------------|-----|--|--|--|--|--|--|
| Transistors         |     | IC301      | F-4 | TP309       | K-5 | VR305  | E-5 | Transistors |     | Q338      | H-5 | Q727                | L-1 |  |  |  |  |  |  |
|                     |     | IC302      | F-4 | TP310       | J-5 | VR306  | E-5 |             |     | Q339      | I-5 | Q728                | I-3 |  |  |  |  |  |  |
| Q3                  | C-3 | IC303      | E-4 | TP311       | K-5 | VR307  | F-5 | Q1          | C-1 | Q340      | I-5 | Q730                | I-4 |  |  |  |  |  |  |
| Q4                  | C-3 | IC304      | F-4 | TP312       | M-3 | VR308  | P-5 | Q2          | C-3 | Q341      | J-3 | Q731                | I-5 |  |  |  |  |  |  |
| Q8                  | C-3 | IC305      | G-2 | TP313       | M-3 | VR309  | F-3 | Q5          | C-3 | Q342      | J-3 | Q732                | K-4 |  |  |  |  |  |  |
| Q11                 | C-3 | IC306      | F-2 | TP315       | H-5 | VR310  | F-1 | Q6          | C-3 | Q343      | J-3 | Q733                | K-5 |  |  |  |  |  |  |
| Q12                 | C-4 | IC307      | G-1 | TP316       | H-2 | VR311  | E-2 | Q7          | B-3 | Q344      | J-5 | Q734                | K-5 |  |  |  |  |  |  |
| Q15                 | D-2 | IC308      | G-4 | TP317       | L-2 | VR312  | F-1 | Q9          | C-3 | Q345      | J-5 | Q735                | K-5 |  |  |  |  |  |  |
| Q20                 | B-5 | IC309      | G-5 | TP701       | E-4 | VR313  | J-1 | Q10         | B-3 | Q347      | J-5 | Q737                | L-5 |  |  |  |  |  |  |
| Q208                | A-3 | IC310      | I-2 | TP702       | E-3 | VR314  | J-1 | Q13         | C-4 | Q348      | J-5 | Q738                | L-5 |  |  |  |  |  |  |
| Q216                | B-6 | IC311      | I-2 | TP703       | L-1 | VR315  | J-1 | Q14         | C-4 | Q349      | J-5 | Q741                | L-6 |  |  |  |  |  |  |
| Q311                | H-2 | IC312      | I-3 | TP704       | I-4 | VR316  | J-1 | Q16         | C-5 | Q352      | J-5 | Q742                | L-5 |  |  |  |  |  |  |
| Q315                | F-3 | IC313      | J-3 | TP705       | I-5 | VR317  | I-1 | Q17         | C-6 | Q353      | J-5 | Q745                | M-5 |  |  |  |  |  |  |
| Q319                | E-1 | IC314      | J-3 | TP706       | L-4 | VR318  | J-2 | Q18         | C-6 | Q356      | I-5 | Q746                | M-5 |  |  |  |  |  |  |
| Q322                | H-6 | IC315      | H-4 | TP707       | K-5 | VR319  | J-2 | Q19         | B-5 | Q357      | I-5 | Q747                | L-6 |  |  |  |  |  |  |
| Q323                | G-5 | IC316      | H-5 | TP708       | L-6 | VR320  | H-3 | Q21         | C-4 | Q358      | I-5 | Q748                | L-6 |  |  |  |  |  |  |
| Q329                | I-2 | IC317      | I-5 | TP709       | M-5 | VR321  | H-3 | Q201        | B-1 | Q359      | I-5 | Q749                | L-6 |  |  |  |  |  |  |
| Q330                | J-2 | IC319      | J-4 | TP710       | M-5 | VR322  | I-4 | Q202        | B-2 | Q361      | I-5 | Q750                | L-6 |  |  |  |  |  |  |
| Q332                | I-2 | IC323      | M-3 | TP711       | K-1 | VR323  | I-4 | Q203        | B-2 | Q362      | L-3 | Q751                | M-5 |  |  |  |  |  |  |
| Q337                | H-4 | IC326      | E-1 | TP712       | L-4 | VR324  | I-5 | Q204        | B-2 | Q363      | M-3 | Q753                | M-4 |  |  |  |  |  |  |
| Q346                | J-5 | IC701      | E-5 | TP GND      |     | VR325  | I-5 | Q205        | A-3 | Q364      | M-3 | Q754                | K-3 |  |  |  |  |  |  |
| Q350                | J-5 | IC702      | E-5 |             |     | VR326  | L-3 | Q206        | B-2 | Q365      | M-4 | Q755                | L-3 |  |  |  |  |  |  |
| Q351                | J-6 | IC703      | D-5 |             |     | VR327  | K-1 | Q207        | B-3 | Q367      | M-4 | Q756                | L-3 |  |  |  |  |  |  |
| Q360                | I-5 | IC704      | D-5 | TPG1        | C-1 | VR328  | M-2 | Q209        | A-3 | Q368      | M-3 | Q757                | L-4 |  |  |  |  |  |  |
| Q366                | M-4 | IC705      | E-4 | TPG2        | C-6 | VR329  | M-1 | Q210        | B-3 | Q369      | M-2 | Q758                | I-4 |  |  |  |  |  |  |
| Q373                | M-1 | IC706      | E-2 | TPG201      | B-1 | VR330  | M-1 | Q211        | B-3 | Q370      | M-2 | Q759                | I-4 |  |  |  |  |  |  |
| Q374                | L-1 | IC707      | K-1 | TPG202      | A-5 | VR331  | M-3 | Q212        | A-3 | Q371      | M-2 | Q761                | L-6 |  |  |  |  |  |  |
| Q375                | M-1 | IC708      | K-2 | TPG301      | G-5 | VR701  | E-6 | Q213        | B-5 | Q372      | L-2 | Q763                | L-6 |  |  |  |  |  |  |
| Q385                | F-1 | IC709      | L-2 | TPG302      | E-2 | VR702  | E-6 | Q214        | B-5 | Q376      | J-3 | Q764                | L-6 |  |  |  |  |  |  |
| Q386                | J-5 | IC710      | L-2 | TPG303      | J-5 | VR703  | D-6 | Q215        | B-5 | Q377      | J-3 |                     |     |  |  |  |  |  |  |
| Q718                | K-1 | IC711      | L-3 | TPG701      | E-5 | VR704  | D-6 | Q217        | B-6 | Q378      | J-3 | Integrated Circuits |     |  |  |  |  |  |  |
| Q729                | I-4 | IC712      | I-4 | TPG702      | D-3 | VR709  | E-3 | Q218        | B-6 | Q379      | K-4 |                     |     |  |  |  |  |  |  |
| Q736                | K-5 | IC716      | L-4 | TPG703      | L-5 | VR710  | G-1 | Q219        | B-5 | Q380      | H-2 |                     |     |  |  |  |  |  |  |
| Q739                | K-6 | IC720      | M-5 | Adjustments |     | VR711  | G-1 | Q220        | B-4 | Q381      | H-2 | IC202               | A-4 |  |  |  |  |  |  |
| Q740                | L-5 | Test Point |     |             |     | VR712  | G-1 | Q301        | F-5 | Q382      | H-5 | IC322               | L-3 |  |  |  |  |  |  |
| Q760                | I-4 |            |     |             |     | VR713  | H-1 | Q302        | F-5 | Q383      | H-5 | IC324               | M-2 |  |  |  |  |  |  |
| Q762                | L-6 |            |     |             |     | VR714  | J-2 | Q303        | F-5 | Q384      | H-5 | IC325               | M-4 |  |  |  |  |  |  |
| Integrated Circuits |     | TP1        | C-3 | VR1         | C-1 | VR715  | L-1 | Q304        | F-5 | Q387      | J-6 | IC719               | M-5 |  |  |  |  |  |  |
|                     |     | TP3        | C-3 | VR3         | C-2 | VR716  | K-3 | Q305        | E-5 | Q388      | J-5 | IC721               | M-4 |  |  |  |  |  |  |
|                     |     | TP4        | C-3 | VR4         | C-4 | VR717  | H-3 | Q306        | E-5 | Q389      | J-6 | IC722               | M-6 |  |  |  |  |  |  |
|                     |     | TP5        | C-4 | VR5         | C-4 | VR718  | I-3 | Q307        | F-5 | Q701      | E-5 |                     |     |  |  |  |  |  |  |
| IC1                 | C-2 | TP6        | C-5 | VR6         | C-1 | VR719  | K-4 | Q308        | F-5 | Q702      | E-5 |                     |     |  |  |  |  |  |  |
| IC2                 | C-2 | TP7        | B-6 | VR7         | C-4 | VR720  | K-6 | Q309        | F-4 | Q703      | D-5 |                     |     |  |  |  |  |  |  |
| IC3                 | C-2 | TP8        | C-5 | VR8         | C-4 | VR721  | K-5 | Q310        | G-2 | Q704      | D-5 |                     |     |  |  |  |  |  |  |
| IC4                 | C-2 | TP201      | A-2 | VR9         | C-4 | VR722  | L-5 | Q313        | F-3 | Q705      | D-5 |                     |     |  |  |  |  |  |  |
| IC5                 | C-4 | TP202      | B-2 | VR10        | C-5 | VR723  | L-5 | Q314        | F-3 | Q710      | E-4 |                     |     |  |  |  |  |  |  |
| IC6                 | C-6 | TP203      | A-2 | VR11        | C-5 | VR724  | K-1 | Q316        | F-2 | Q711      | D-4 |                     |     |  |  |  |  |  |  |
| IC7                 | C-5 | TP204      | A-4 | VR201       | B-1 | VR725  | M-4 | Q317        | F-2 | Q712      | E-4 |                     |     |  |  |  |  |  |  |
| IC9                 | D-6 | TP205      | B-4 | VR202       | B-3 | VR726  | M-5 | Q318        | E-2 | Q713      | D-4 |                     |     |  |  |  |  |  |  |
| IC10                | F-6 | TP206      | B-4 | VR203       | B-3 | Others |     | Q320        | H-2 | Q714      | E-3 |                     |     |  |  |  |  |  |  |
| IC11                | D-2 | TP207      | B-6 | VR204       | B-3 |        |     | Q321        | G-4 | Q715      | E-3 |                     |     |  |  |  |  |  |  |
| IC12                | D-1 | TP301      | F-3 | VR205       | A-3 |        |     | Q324        | I-1 | Q716      | J-2 |                     |     |  |  |  |  |  |  |
| IC13                | D-1 | TP302      | F-2 | VR206       | B-3 | VC1    | C-5 | Q326        | I-2 | Q719      | K-1 |                     |     |  |  |  |  |  |  |
| IC14                | E-1 | TP303      | F-4 | VR207       | B-4 | VC201  | B-4 | Q327        | H-2 | Q721      | K-1 |                     |     |  |  |  |  |  |  |
| IC15                | M-6 | TP304      | H-2 | VR208       | B-3 | VC301  | H-2 | Q331        | I-3 | Q722      | K-2 |                     |     |  |  |  |  |  |  |
| IC16                | D-6 | TP305      | H-5 | VR209       | A-4 | VC302  | J-5 | Q333        | I-2 | Q723      | K-1 |                     |     |  |  |  |  |  |  |
| IC17                | B-6 | TP306      | G-5 | VR301       | F-5 | VC701  | K-2 | Q334        | I-2 | Q724      | K-1 |                     |     |  |  |  |  |  |  |
| IC201               | B-2 | TP307      | I-3 | VR302       | F-5 |        |     | Q335        | I-3 | Q725      | K-2 |                     |     |  |  |  |  |  |  |
| IC203               | B-4 | TP308      | H-4 | VR303       | F-5 |        |     | Q336        | H-3 | Q726      | L-1 |                     |     |  |  |  |  |  |  |
|                     |     |            |     | VR304       | F-5 |        |     |             |     |           |     |                     |     |  |  |  |  |  |  |

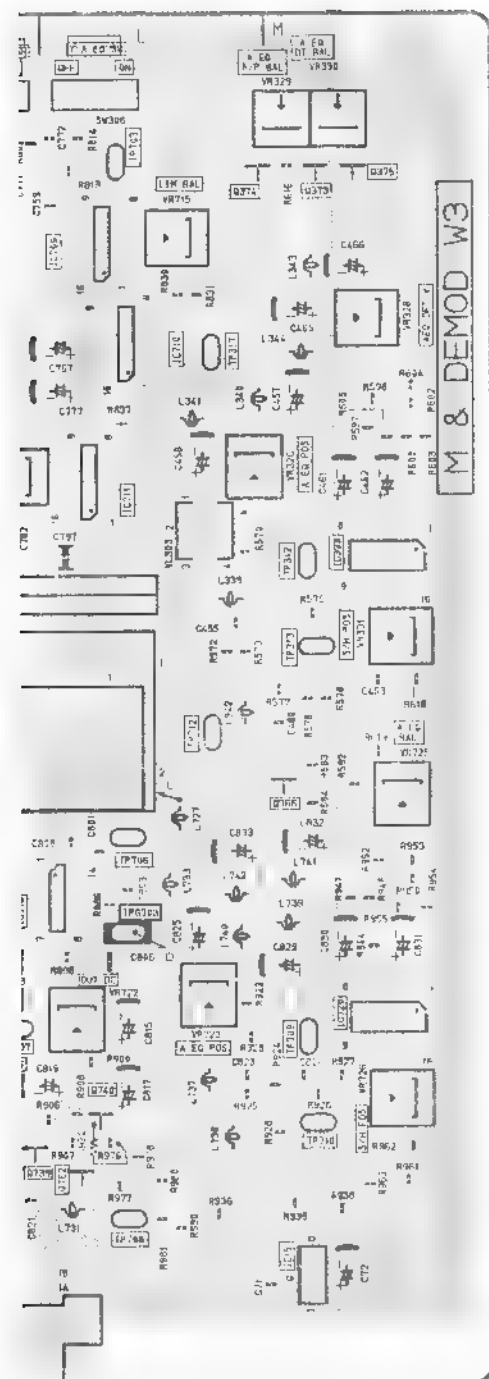
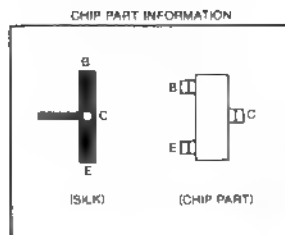
# W3 (MOD & DEMOD) P.C.BOARD

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP83098B | VEP83098A | VEP83098D | VEP83098C |
| NTSC  | VEP83098H | VEP83098E | VEP83098F | VEP83098G |
| PAL   |           |           |           |           |

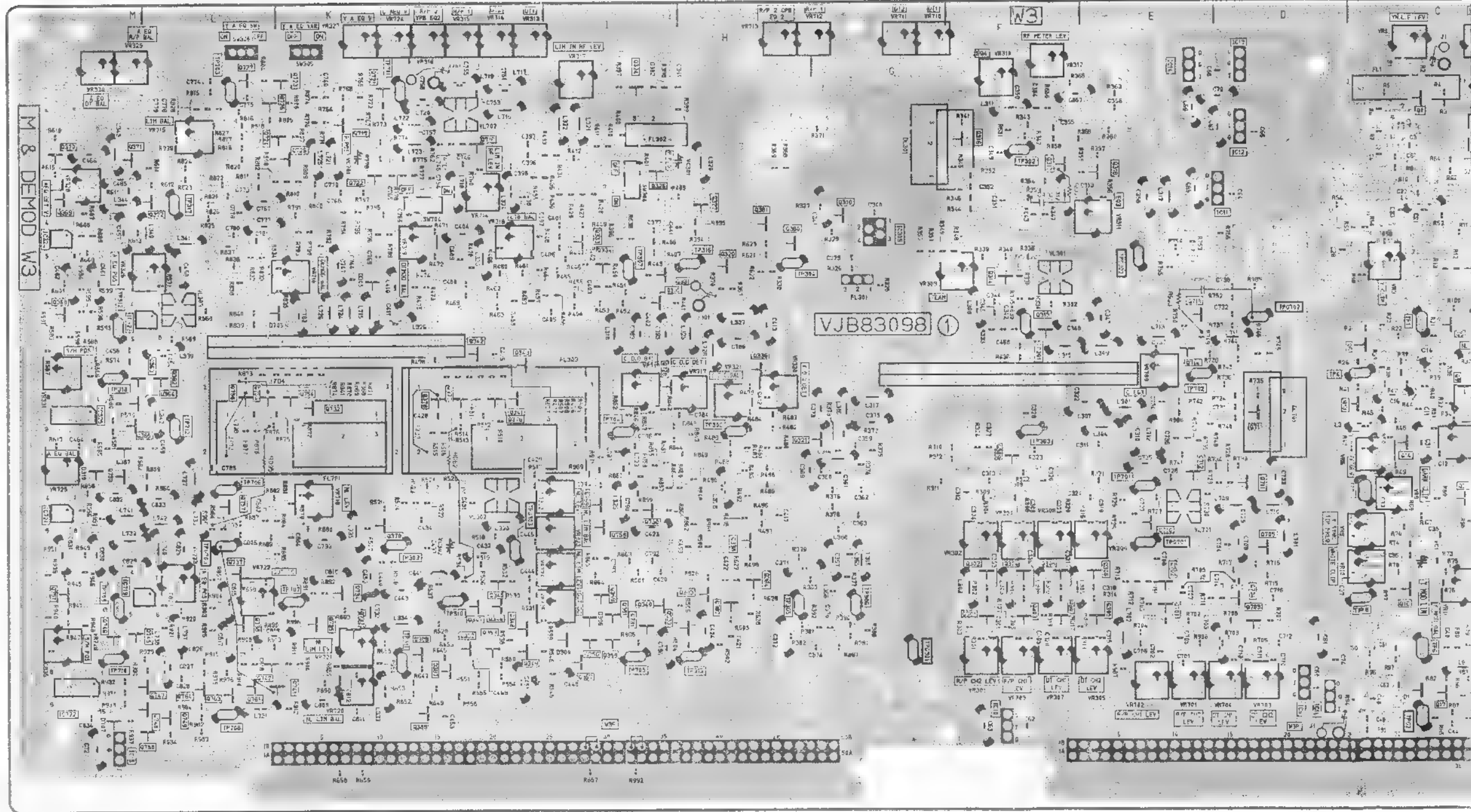


(COMPONENT SIDE)





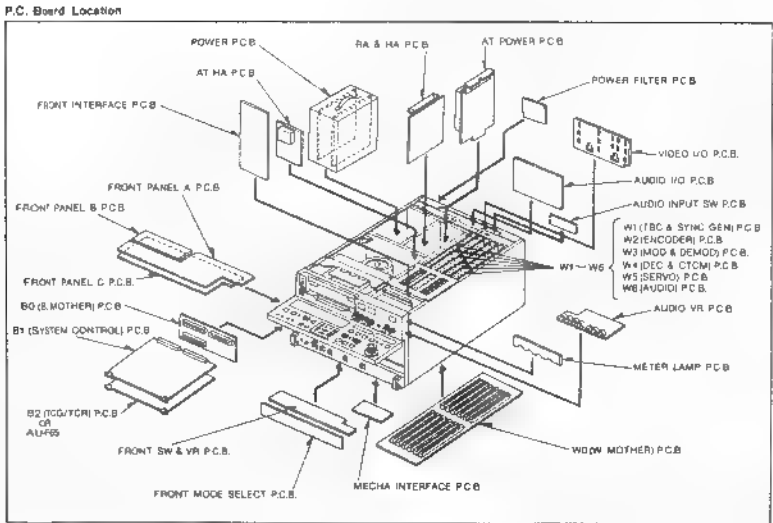
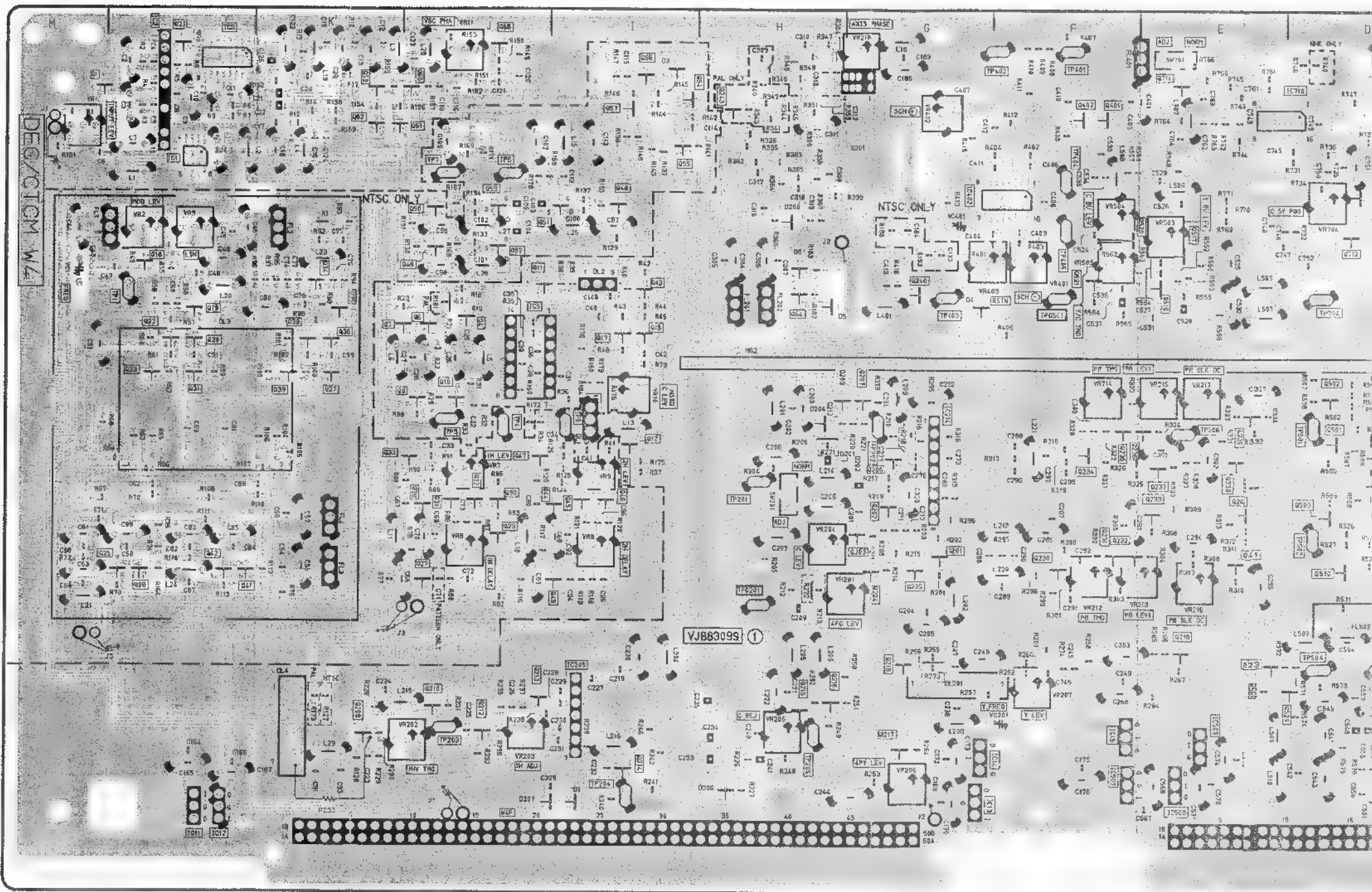
(COMPONENT SIDE)

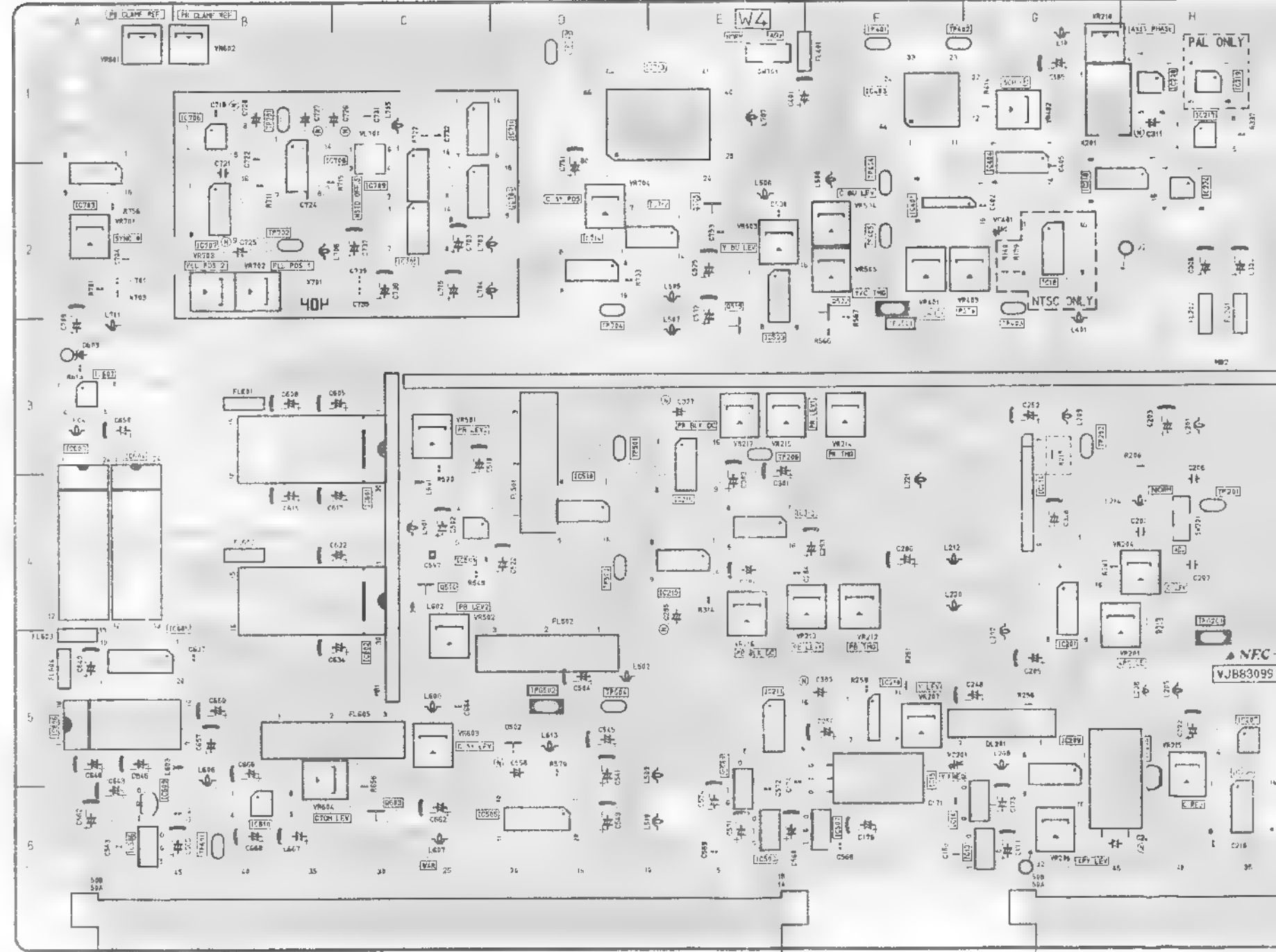
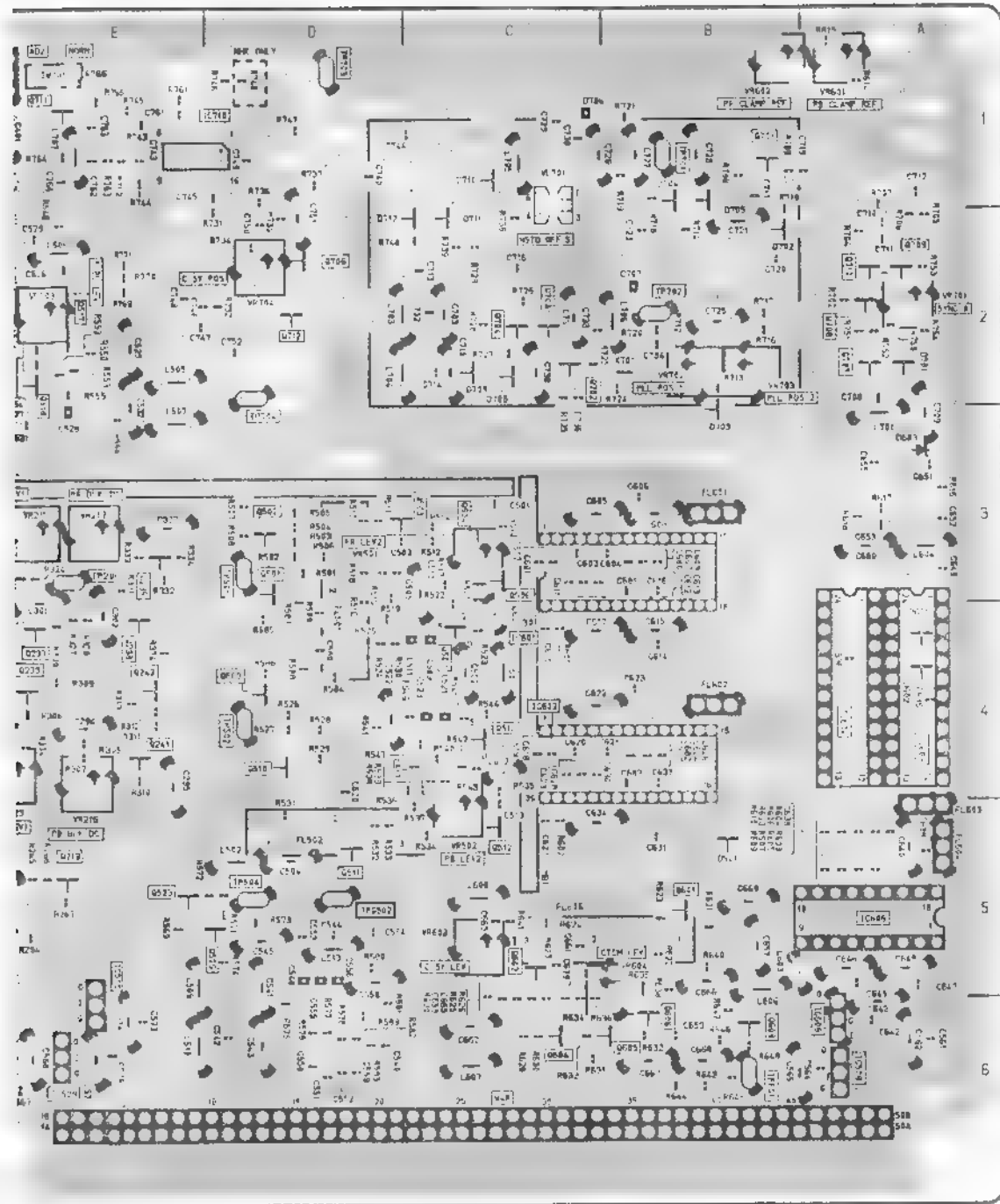
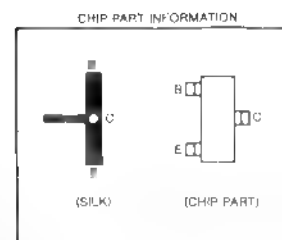




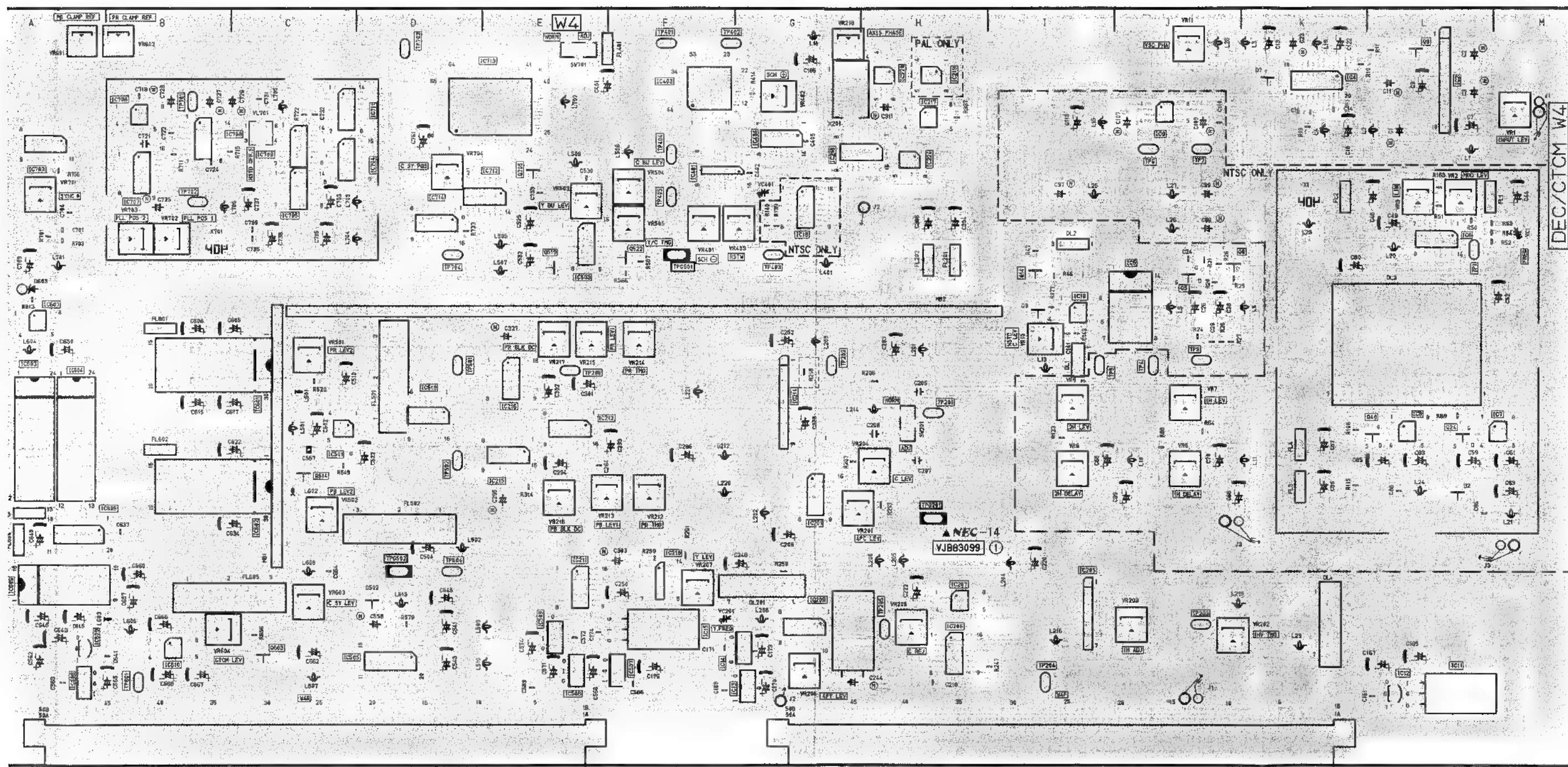
W4(DECODER&CTCM)P.C.BOARD

| MODEL TYPE | AU-665    | AU-65     | AU-63    | AU-62    |
|------------|-----------|-----------|----------|----------|
| NTSC       | VEP83099A | VEP83099A | Not Used | Not Used |
| PAL        |           | VEP83099B | Not Used | Not Used |









**(COMPONENT SIDE)**

## W4 (DEC &amp; CTCM)

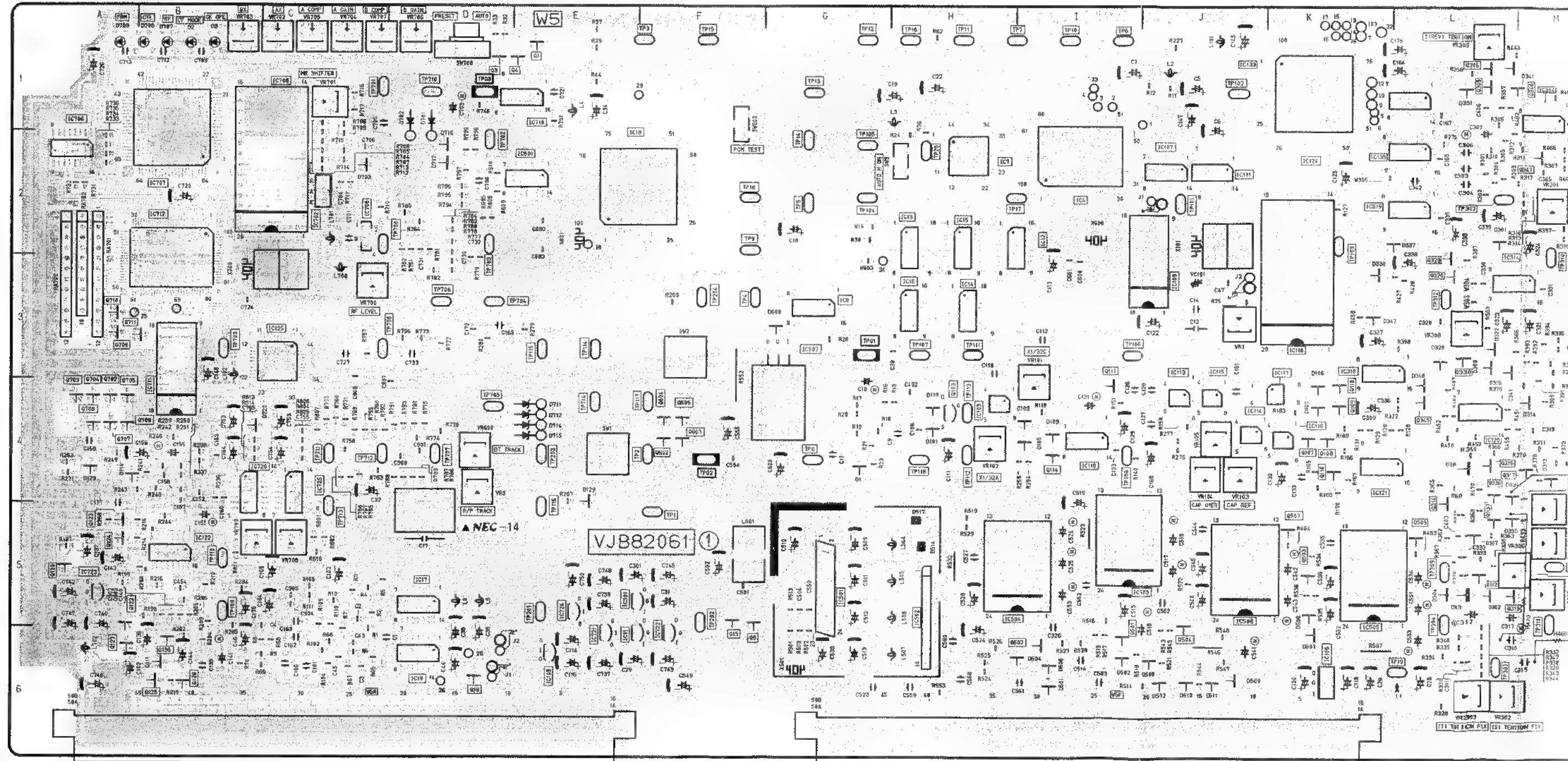
| COMPONENT SIDE   |  |             |     |       |     | FOIL SIDE  |   |                              |                          |                        |     |
|--|--|-------------|-----|-------|-----|--|---|------------------------------|--------------------------|------------------------|-----|
| Transistors  |  | IC601       | B-3 | VR2   | L-2 | Transistors  |   | Q201                         | G-4                      | Q703                   | C-2 |
| Q3<br>Q5<br>Q8<br>Q14<br>Q24<br>Q40<br>Q514<br>Q519<br>Q522<br>Q603<br>Q705  | L-1<br>J-3<br>J-3<br>I-3<br>L-4<br>L-4<br>C-4<br>E-3<br>F-2<br>C-6<br>E-2  | IC602       | B-4 | VR3   | L-2 | Q1<br>Q2<br>Q4<br>Q6<br>Q7<br>Q9<br>Q10<br>Q11<br>Q12<br>Q13<br>Q15<br>Q17<br>Q18<br>Q19<br>Q20<br>Q21<br>Q22<br>Q23<br>Q25<br>Q26<br>Q27<br>Q28<br>Q29<br>Q30<br>Q31<br>Q32<br>Q33<br>Q34<br>Q35<br>Q36<br>Q37<br>Q38<br>Q39<br>Q41<br>Q42<br>Q43<br>Q44<br>Q45<br>Q46<br>Q47<br>Q48<br>Q49<br>Q50<br>Q51<br>Q52<br>Q53<br>Q54<br>Q55<br>Q56<br>Q57<br>Q58<br>Q59<br>Q60<br>Q61<br>Q62<br>Q64 | M-1<br>L-1<br>J-3<br>J-3<br>J-3<br>J-3<br>J-2<br>I-3<br>I-2<br>I-3<br>I-3<br>L-2<br>L-3<br>L-3<br>L-3<br>L-3<br>L-4<br>L-4<br>J-4<br>J-4<br>J-4<br>K-2<br>K-3<br>K-3<br>K-3<br>L-4<br>L-4<br>I-4<br>I-4<br>I-4<br>I-2<br>J-2<br>J-2<br>J-2<br>I-1<br>I-1<br>I-1<br>J-1<br>K-1<br>K-1<br>H-2 | Q202                         | G-4                      | Q704                   | C-2 |
|  |  | IC603       | A-4 | VR6   | J-4 |  |   | Q203                         | G-4                      | Q706                   | D-2 |
|  |  | IC604       | A-4 | VR7   | J-4 |  |   | Q204                         | G-4                      | Q707                   | A-2 |
|  |  | IC605       | A-5 | VR8   | I-4 |  |   | Q205                         | G-4                      | Q708                   | A-2 |
|  |  | IC606       | A-5 | VR9   | I-4 |  |   | Q206                         | G-4                      | Q709                   | A-2 |
|  |  | IC607       | A-3 | VR10  | I-3 |  |   | Q207                         | G-3                      | Q710                   | A-2 |
|  |  | IC609       | A-6 | VR11  | J-1 |  |   | Q209                         | K-5                      | Q711                   | E-1 |
|  |  | IC610       | B-6 | VR201 | G-5 |  |   | Q210                         | J-5                      | Q712                   | D-2 |
|  |  | IC703       | A-2 | VR202 | J-6 |  |   | Q212                         | J-5                      | Integrated<br>Circuits |     |
|  |  | IC704       | C-2 | VR203 | J-5 |  |   | Q213                         | J-5                      |                        |     |
| IC705  | C-2  | VR204       | H-4 | Q214  | I-6 |  |   |                              |                          |                        |     |
| IC706  | B-1  | VR205       | H-5 | Q215  | H-5 |  |   |                              |                          |                        |     |
| Integrated<br>Circuits   |  | IC707       | B-2 | VR206 | G-6 | Q216   | H-5   | IC1<br>IC3<br>IC402<br>IC710 | L-2<br>L-1<br>F-2<br>E-1 |                        |     |
|  |  | IC708       | B-2 | VR207 | F-5 | Q217   | G-6   |                              |                          |                        |     |
|  |  | IC709       | C-2 | VR212 | F-4 | Q218   | G-5   |                              |                          |                        |     |
|  |  | IC711       | C-1 | VR213 | E-4 | Q219   | E-5   |                              |                          |                        |     |
| IC2<br>IC4<br>IC5<br>IC6<br>IC7<br>IC8<br>IC9<br>IC10<br>IC11<br>IC12<br>IC13<br>IC14<br>IC15<br>IC18<br>IC201<br>IC205<br>IC206<br>IC207<br>IC209<br>IC210<br>IC211<br>IC212<br>IC214<br>IC215<br>IC216<br>IC217<br>IC218<br>IC219<br>IC220<br>IC224<br>IC401<br>IC403<br>IC404<br>IC501<br>IC503<br>IC505<br>IC506<br>IC507<br>IC508<br>IC509<br>IC510 | L-1<br>K-1<br>J-3<br>L-2<br>M-4<br>L-4<br>J-1<br>I-3<br>L-6<br>L-6<br>G-6<br>G-6<br>F-5<br>G-2<br>G-4<br>I-5<br>H-6<br>H-5<br>G-5<br>F-5<br>E-5<br>E-4<br>G-4<br>E-4<br>E-3<br>H-1<br>G-2<br>H-1<br>H-1<br>H-1<br>H-2<br>F-2<br>F-1<br>G-2<br>C-4<br>E-2<br>D-6<br>E-3<br>H-1<br>G-2<br>H-1<br>H-1<br>H-2<br>F-2<br>F-1<br>G-2<br>C-4<br>E-2<br>D-6<br>A-6<br>F-6<br>E-6<br>E-6<br>D-4 | IC712       | E-2 | VR214 | F-3 | Q221   | L-3   | Q230                         | F-4                      |                        |     |
|  |  | IC713       | E-1 | VR215 | E-3 | Q222   | L-3   | Q231                         | F-4                      |                        |     |
|  |  | IC714       | D-2 | VR216 | E-4 | Q223   | L-3   | Q232                         | F-4                      |                        |     |
|  |  | Test Points |     | VR217 | E-3 | Q25  | L-4   | Q233                         | E-4                      |                        |     |
|  |  | TP1         | L-2 | VR218 | G-1 | Q26  | L-4   | Q234                         | F-4                      |                        |     |
|  |  |             |     | VR401 | F-2 | Q27  | J-4   | Q235                         | F-3                      |                        |     |
|  |  | TP3         | J-3 | VR402 | G-1 | Q28  | J-4   | Q236                         | E-3                      |                        |     |
|  |  |             |     | VR403 | G-2 | Q29  | J-4   | Q237                         | E-4                      |                        |     |
|  |  | TP4         | J-3 | VR501 | C-3 | Q30  | J-4   | Q238                         | E-4                      |                        |     |
|  |  |             |     | VR502 | C-5 | Q31  | J-4   | Q239                         | E-3                      |                        |     |
| TP5  | I-3  | VR503       | E-2 | Q32   | J-4 | Q240   | G-2   |                              |                          |                        |     |
|  |  | VR504       | F-2 | Q33   | J-4 | Q241   | E-4   |                              |                          |                        |     |
| TP6  | J-2  | VR505       | F-2 | Q34   | K-2 | Q242   | E-4   |                              |                          |                        |     |
|  |  | VR601       | A-1 | Q35   | K-3 | Q243   | H-1   |                              |                          |                        |     |
| TP7  | J-2  | VR602       | B-1 | Q36   | K-3 | Q401   | F-1   |                              |                          |                        |     |
|  |  | VR603       | C-5 | Q37   | K-3 | Q402   | F-1   |                              |                          |                        |     |
| TP201  | H-4  | VR604       | B-5 | Q38   | K-3 | Q501   | D-3   |                              |                          |                        |     |
|  |  | VR701       | A-2 | Q39   | K-3 | Q502   | D-3   |                              |                          |                        |     |
| TP202  | G-3  | VR702       | B-2 | Q41   | L-4 | Q503   | D-3   |                              |                          |                        |     |
|  |  | VR703       | B-2 | Q42   | L-4 | Q504   | C-3   |                              |                          |                        |     |
| TP203  | J-5  | VR704       | D-2 | Q43   | I-4 | Q506   | C-3   |                              |                          |                        |     |
|  |  | Others      |     | Q44   | I-4 | Q507   | C-4   |                              |                          |                        |     |
| TP204  | I-6  | VC1         | M-2 | Q45   | I-4 | Q509   | D-4   |                              |                          |                        |     |
|  |  |             |     | VC201 | F-5 | Q46  | I-4   | Q510                         | D-4                      |                        |     |
| TP205  | H-5  | VC401       | G-2 | Q47   | J-4 | Q511   | D-5   |                              |                          |                        |     |
|  |  |             |     | Q48   | I-2 | Q512   | C-5   |                              |                          |                        |     |
| TP206  | E-3  |             |     | Q49   | J-2 | Q515   | C-4   |                              |                          |                        |     |
|  |  |             |     | Q50   | J-2 | Q517   | E-2   |                              |                          |                        |     |
| TP401  | F-1  |             |     | Q51   | I-2 | Q518   | E-2   |                              |                          |                        |     |
|  |  |             |     | Q52   | J-2 | Q520   | F-2   |                              |                          |                        |     |
| TP402  | F-1  |             |     | Q53   | J-2 | Q521   | F-2   |                              |                          |                        |     |
|  |  |             |     | Q54   | I-1 | Q523   | E-5   |                              |                          |                        |     |
| TP403  | G-2  |             |     | Q55   | I-1 | Q525   | D-5   |                              |                          |                        |     |
|  |  |             |     | Q56   | I-1 | Q601   | B-5   |                              |                          |                        |     |
| TP404  | F-2  |             |     | Q57   | I-1 | Q602   | C-5   |                              |                          |                        |     |
|  |  |             |     | Q58   | J-1 | Q604   | C-6   |                              |                          |                        |     |
| TP405  | F-2  |             |     | Q59   | K-1 | Q605   | B-6   |                              |                          |                        |     |
|  |  |             |     | Q60   | J-1 | Q606   | B-6   |                              |                          |                        |     |
| TP501  | D-3  |             |     | Q61   | K-1 | Q609   | B-6   |                              |                          |                        |     |
|  |  |             |     | Q62   | K-1 | Q701   | B-1   |                              |                          |                        |     |
| TP502  | D-4  |             |     | Q64   | H-2 | Q702   | C-2   |                              |                          |                        |     |
|  |  |             |     |       |     |  |   |                              |                          |                        |     |
| TP504  | D-5  |             |     |       |     |  |   |                              |                          |                        |     |
|  |  |             |     |       |     |  |   |                              |                          |                        |     |
| TP601  | B-6  |             |     |       |     |  |   |                              |                          |                        |     |
|  |  |             |     |       |     |  |   |                              |                          |                        |     |
| TP701  | B-1  |             |     |       |     |  |   |                              |                          |                        |     |
|  |  |             |     |       |     |  |   |                              |                          |                        |     |
| TP702  | B-2  |             |     |       |     |  |   |                              |                          |                        |     |
|  |  |             |     |       |     |  |   |                              |                          |                        |     |
| TP703  | D-1  |             |     |       |     |  |   |                              |                          |                        |     |
|  |  |             |     |       |     |  |   |                              |                          |                        |     |
| TP704  | D-2  |             |     |       |     |  |   |                              |                          |                        |     |
|  |  |             |     |       |     |  |   |                              |                          |                        |     |
| TP GND   |  |             |     |       |     |  |   |                              |                          |                        |     |
| TPG201   | H-5  |             |     |       |     |  |   |                              |                          |                        |     |
|  |  |             |     |       |     |  |   |                              |                          |                        |     |
| TPG501   | F-2  |             |     |       |     |  |   |                              |                          |                        |     |
|  |  |             |     |       |     |  |   |                              |                          |                        |     |
| TPG502   | D-5  |             |     |       |     |  |   |                              |                          |                        |     |
|  |  |             |     |       |     |  |   |                              |                          |                        |     |
| Adjustments  |  |             |     |       |     |  |   |                              |                          |                        |     |
| VR1  | M-1  |             |     |       |     |  |   |                              |                          |                        |     |
|  |  |             |     |       |     |  |   |                              |                          |                        |     |

# W5 (SERVO)

| COMPONENT SIDE |     |                     |     |             |     |       |     |             |     | FOIL SIDE           |     |       |     |       |     |     |     |
|----------------|-----|---------------------|-----|-------------|-----|-------|-----|-------------|-----|---------------------|-----|-------|-----|-------|-----|-----|-----|
| Transistors    |     | Q711                | B-3 | IC721       | E-6 | TP312 | L-3 | Transistors |     | Integrated Circuits |     |       |     |       |     |     |     |
| Q1             | E-1 | Integrated Circuits | I-2 | IC722       | F-6 | TP700 | C-2 | Q2          | I-1 | IC1                 | C-6 | IC2   | C-5 |       |     |     |     |
| Q3             | D-1 |                     |     | IC723       | A-5 | TP701 | C-1 | Q5          | F-5 |                     |     |       |     | IC3   | J-1 |     |     |
| Q4             | F-1 |                     |     | IC724       | E-5 | TP702 | D-2 | Q6          | F-4 |                     |     |       |     |       |     | IC4 | G-4 |
| Q9             | F-5 |                     |     | IC725       | C-4 | TP703 | B-3 | Q7          | F-5 |                     |     |       |     |       |     |     |     |
| Q15            | F-5 | IC726               | B-4 | TP704       | D-3 | Q8    | F-6 | IC9         | J-2 |                     |     |       |     |       |     |     |     |
| Q18            | D-6 | Test Points         |     |             |     | TP705 | D-4 |             |     | Q10                 | F-6 | IC10  | J-2 |       |     |     |     |
| Q103           | H-4 | IC11                | E-6 | TP706       | C-3 | Q11   | F-5 |             |     | IC101               | C-5 |       |     |       |     |     |     |
| Q107           | K-4 | IC12                | I-2 | TP707       | D-4 | Q12   | F-4 |             |     |                     |     |       |     | IC102 | C-5 |     |     |
| Q108           | K-4 | IC13                | H-2 | TP708       | D-3 | Q13   | F-4 | IC104       | I-3 |                     |     |       |     |       |     |     |     |
| Q109           | K-4 | IC14                | H-3 | TP709       | D-2 | Q14   | F-5 |             |     |                     |     | IC108 | K-3 |       |     |     |     |
| Q110           | K-4 | IC15                | H-2 | TP710       | D-1 | Q16   | F-5 |             |     | IC112               | I-3 |       |     |       |     |     |     |
| Q111           | I-4 | IC16                | H-3 | TP711       | C-4 | Q17   | F-5 |             |     |                     |     |       |     | IC119 | K-4 |     |     |
| Q114           | I-4 | IC17                | D-5 | TP712       | C-4 | Q101  | B-5 | IC120       | K-4 |                     |     |       |     |       |     |     |     |
| Q116           | K-4 | IC18                | E-2 | TP713       | C-5 | Q102  | H-4 |             |     |                     |     | IC123 | B-5 |       |     |     |     |
| Q120           | A-5 | IC19                | D-6 | TP714       | E-4 | Q104  | H-3 |             |     | IC126               | B-4 |       |     |       |     |     |     |
| Q122           | A-5 | IC103               | H-4 | TP GND      |     | Q105  | J-3 |             |     |                     |     |       |     | IC128 | B-4 |     |     |
| Q123           | A-5 | IC105               | E-6 | TPG1        | G-3 | Q106  | J-2 | IC129       | A-4 |                     |     |       |     |       |     |     |     |
| Q124           | A-5 | IC106               | K-6 | TPG2        | F-4 | Q112  | I-4 |             |     |                     |     | IC130 | H-4 |       |     |     |     |
| Q125           | B-6 | IC107               | J-2 | TPG3        | D-1 | Q113  | I-4 |             |     | IC131               | B-5 |       |     |       |     |     |     |
| Q126           | B-6 | IC109               | J-3 | Adjustments |     | Q115  | J-4 |             |     |                     |     |       |     | IC132 | B-5 |     |     |
| Q127           | A-6 | IC110               | K-3 | VR1         | J-3 | Q117  | K-4 | IC134       | L-1 |                     |     |       |     |       |     |     |     |
| Q136           | B-6 | IC111               | J-2 | VR3         | D-4 | Q118  | L-4 |             |     |                     |     | IC136 | B-3 |       |     |     |     |
| Q305           | L-1 | IC113               | J-4 | VR101       | I-4 | Q119  | L-4 |             |     | IC137               | D-3 |       |     |       |     |     |     |
| Q306           | L-1 | IC114               | J-4 | VR102       | H-4 | Q121  | A-5 |             |     |                     |     |       |     | IC302 | M-3 |     |     |
| Q312           | L-5 | IC115               | J-4 | VR103       | J-4 | Q128  | G-2 | IC303       | L-2 |                     |     |       |     |       |     |     |     |
| Q313           | L-5 | IC116               | K-4 | VR104       | J-4 | Q129  | D-4 |             |     |                     |     | IC305 | L-1 |       |     |     |     |
| Q314           | L-4 | IC117               | K-4 | VR105       | J-4 | Q130  | B-4 |             |     | IC306               | L-6 |       |     |       |     |     |     |
| Q316           | L-4 | IC118               | I-4 | VR301       | M-2 | Q131  | C-3 |             |     |                     |     |       |     | IC307 | L-6 |     |     |
| Q317           | M-4 | IC121               | K-4 | VR302       | L-6 | Q132  | I-4 | IC308       | L-4 |                     |     |       |     |       |     |     |     |
| Q320           | L-3 | IC122               | B-5 | VR303       | L-6 | Q133  | H-4 |             |     |                     |     | IC309 | M-4 |       |     |     |     |
| Q323           | L-3 | IC124               | K-3 | VR304       | M-5 | Q134  | J-4 |             |     | IC310               | L-5 |       |     |       |     |     |     |
| Q336           | L-4 | IC125               | C-3 | VR305       | M-5 | Q135  | I-4 |             |     |                     |     |       |     | IC311 | L-5 |     |     |
| Q337           | L-5 | IC133               | K-1 | VR306       | L-5 | Q137  | H-5 | IC312       | L-4 |                     |     |       |     |       |     |     |     |
| Q338           | L-3 | IC135               | L-2 | VR308       | L-3 | Q138  | L-2 |             |     |                     |     | IC313 | M-4 |       |     |     |     |
| Q345           | L-4 | IC301               | E-5 | VR309       | L-1 | Q139  | L-2 |             |     | IC315               | L-3 |       |     |       |     |     |     |
| Q346           | M-1 | IC304               | M-1 | VR600       | D-4 | Q301  | M-2 |             |     |                     |     |       |     | IC316 | M-3 |     |     |
| Q347           | M-2 | IC314               | L-3 | VR700       | C-3 | Q302  | M-1 | IC600       | I-3 |                     |     |       |     |       |     |     |     |
| Q501           | I-6 | IC318               | K-3 | VR701       | C-1 | Q303  | L-1 |             |     |                     |     | IC701 | C-2 |       |     |     |     |
| Q502           | I-6 | IC319               | L-2 | VR702       | C-1 | Q304  | L-1 |             |     | IC703               | C-2 |       |     |       |     |     |     |
| Q503           | K-5 | IC320               | L-4 | VR703       | B-1 | Q307  | M-2 |             |     |                     |     |       |     | IC704 | B-1 |     |     |
| Q504           | J-6 | IC501               | G-5 | VR704       | C-1 | Q308  | M-2 | IC705       | A-1 |                     |     |       |     |       |     |     |     |
| Q505           | L-5 | IC502               | H-5 | VR705       | C-1 | Q309  | M-3 |             |     |                     |     | IC709 | B-1 |       |     |     |     |
| Q507           | K-5 | IC503               | I-5 | VR706       | D-1 | Q319  | M-4 |             |     | IC713               | C-3 |       |     |       |     |     |     |
| Q602           | F-4 | IC504               | I-5 | VR707       | C-1 | Q340  | K-3 |             |     |                     |     |       |     | IC714 | C-4 |     |     |
| Q603           | F-4 | IC505               | K-5 | VR708       | C-5 | Q343  | K-2 | IC715       | C-4 |                     |     |       |     |       |     |     |     |
| Q604           | F-4 | IC506               | J-5 | VR709       | B-5 | Q344  | K-2 |             |     |                     |     | IC716 | D-3 |       |     |     |     |
| Q605           | F-4 | IC507               | G-4 |             |     | Q506  | L-5 |             |     | IC717               | D-2 |       |     |       |     |     |     |
| Q702           | A-4 | IC601               | E-2 |             |     | Q508  | K-5 |             |     |                     |     |       |     | IC718 | D-4 |     |     |
| Q703           | A-4 | IC700               | C-2 |             |     | Q509  | I-4 | IC719       | D-4 |                     |     |       |     |       |     |     |     |
| Q704           | A-4 | IC702               | C-2 |             |     | Q600  | D-4 |             |     |                     |     | IC720 | D-2 |       |     |     |     |
| Q705           | A-4 | IC706               | A-2 |             |     | Q601  | D-4 |             |     | IC727               | B-4 |       |     |       |     |     |     |
| Q706           | A-4 | IC707               | B-1 |             |     | Q606  | F-1 |             |     |                     |     |       |     | IC800 | J-4 |     |     |
| Q707           | A-4 | IC708               | C-2 |             |     | Q700  | A-1 |             |     |                     |     |       |     |       |     |     |     |
| Q708           | A-4 | IC710               | E-1 |             |     | Q701  | A-3 |             |     |                     |     |       |     |       |     |     |     |
| Q709           | A-3 | IC711               | B-3 | TP310       | M-2 |       |     |             |     |                     |     |       |     |       |     |     |     |
| Q710           | A-3 | IC712               | B-3 | TP311       | M-5 |       |     |             |     |                     |     |       |     |       |     |     |     |

# W5(SERVO)P.C.BOARD

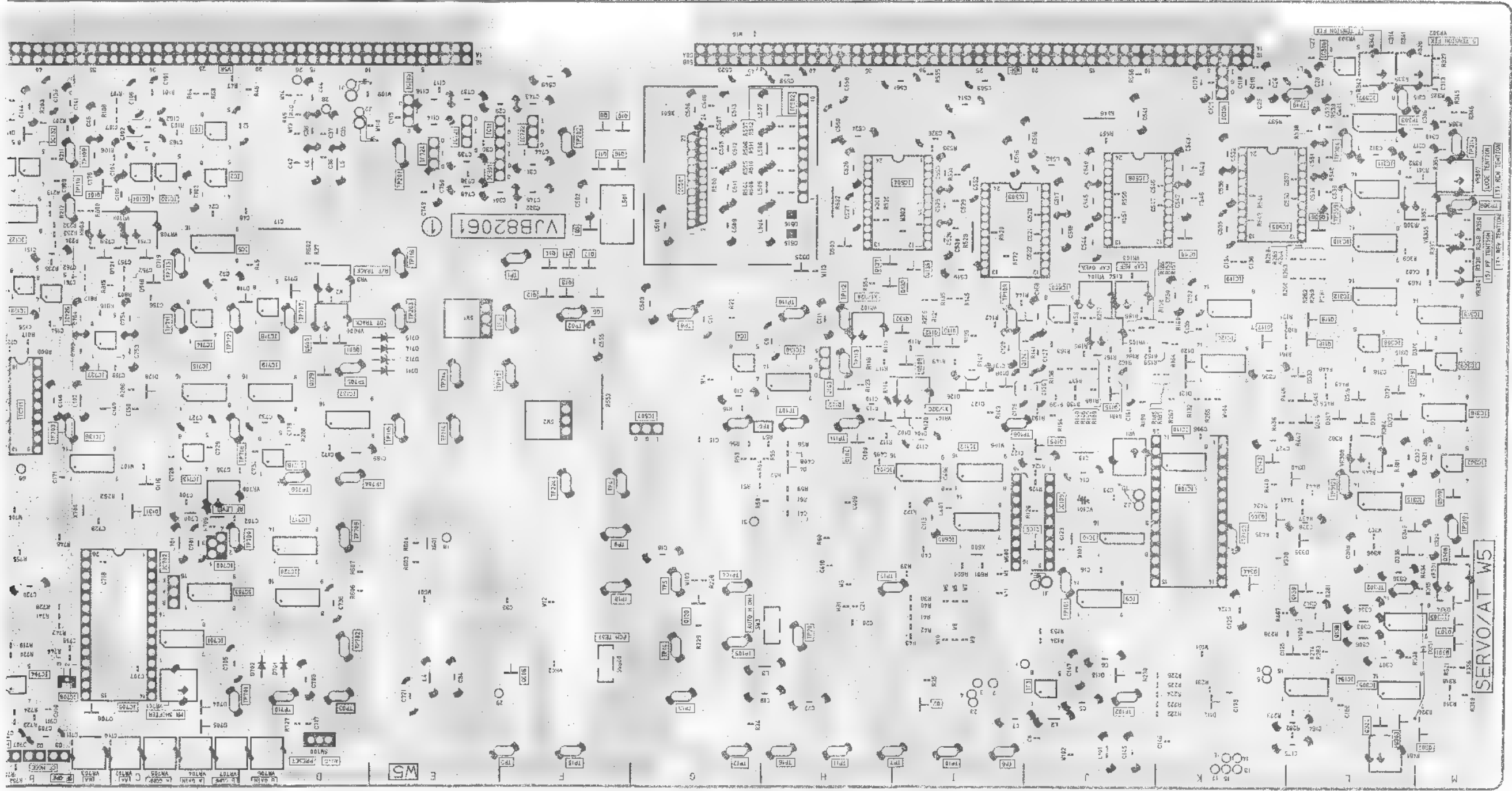
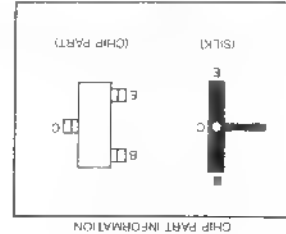
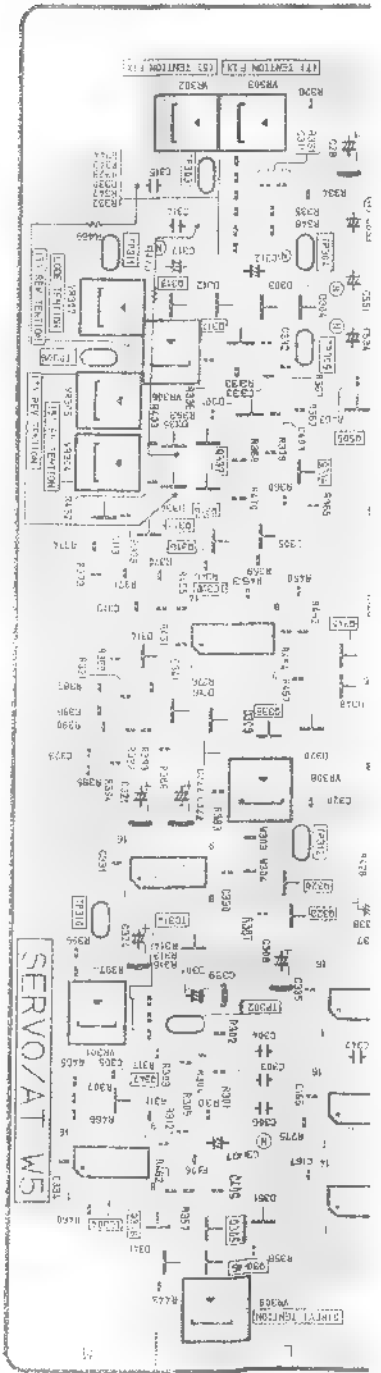
| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP82061B | VEP82061A | VEP82061D | VEP82061C |
| PAL           | VEP82061G | VEP82061E | VEP82061F | VEP82061E |



(COMPONENT SIDE)



PONENT SIDE)



**P.C. Board Location**

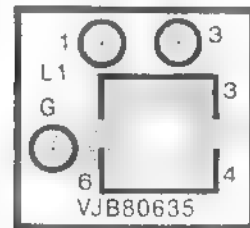
Diagram illustrating the location of various components on the P.C. Board:

- POWER PCB
- RA & HA PCB
- AT POWER PCB
- POWER FILTER P.C.B.
- VIDEO I/O P.C.B.
- AUDIO I/O P.C.B.
- AUDIO INPUT SW P.C.B.
- W1 TBC & SYNC GENI P.C.B.
- W2 ENCODER P.C.B.
- W3 AUDIO & DEMOD P.C.B.
- W4 DEC & CTCM P.C.B.
- W5 SERVO P.C.B.
- W6 AUDIO P.C.B.
- AUDIO VR P.C.B.
- METER LAMP P.C.B.
- IO (W. MOTHER) P.C.B.
- MECHA INTERFACE P.C.B.
- FRONT SW & VR P.C.B.
- FRONT MODE SELECT P.C.B.
- B2 (TCO/TCRI) P.C.B. OR AUP-55
- B1 SYSTEM CONTROL P.C.B.
- B0 (B. MOTHER) P.C.B.
- FRONT PANEL C P.C.B.
- FRONT PANEL B P.C.B.
- FRONT PANEL A P.C.B.
- FRONT INTERFACE P.C.B.
- AT HA P.C.B.

# W6(AUDIO)P.C.BOARD

| TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|------|-----------|-----------|-----------|-----------|
| NTSC | VEP84095B | VEP84095A | VEP84095C | VEP84095C |
| PAL  | VEP84095F | VEP84095D | VEP84095E | VEP84095E |

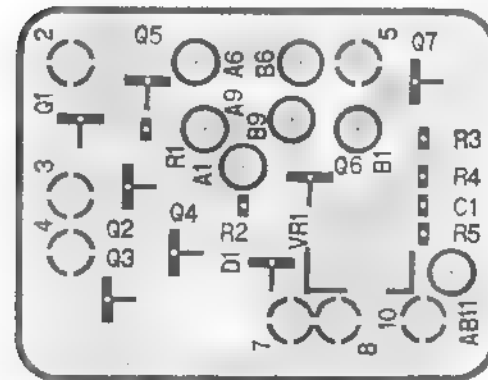
W6 SUB(TC TRAP)P.C.BOARD (VEP80635A)



(COMPONENT SIDE)

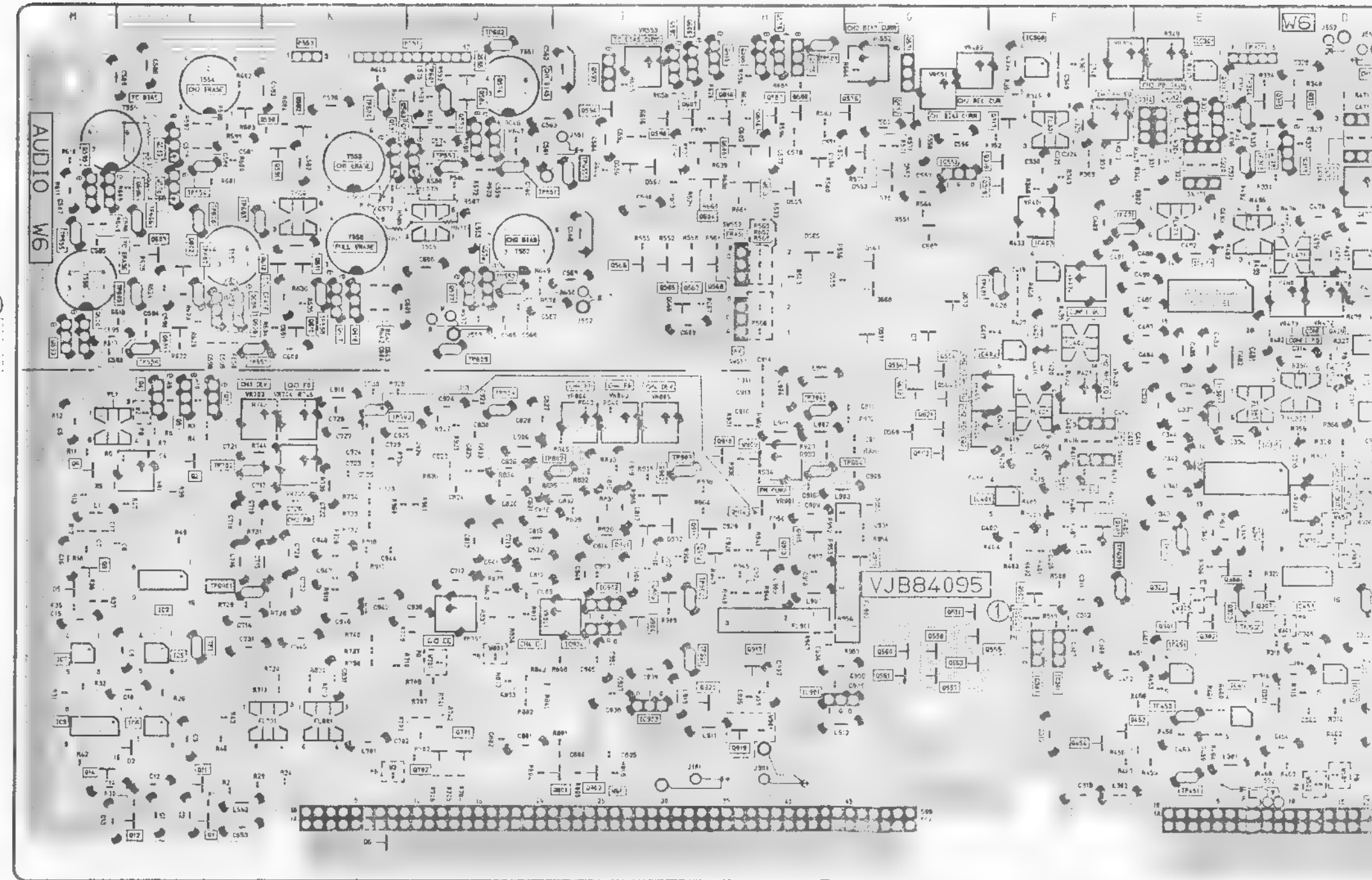
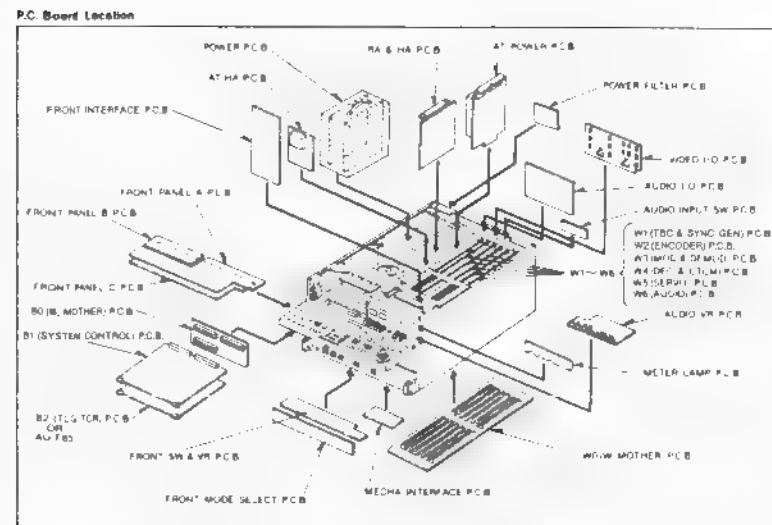
AU-65/665  
ONLY

W6 SUB(SPOT ERASE)P.C.BOARD (VEP80664A)

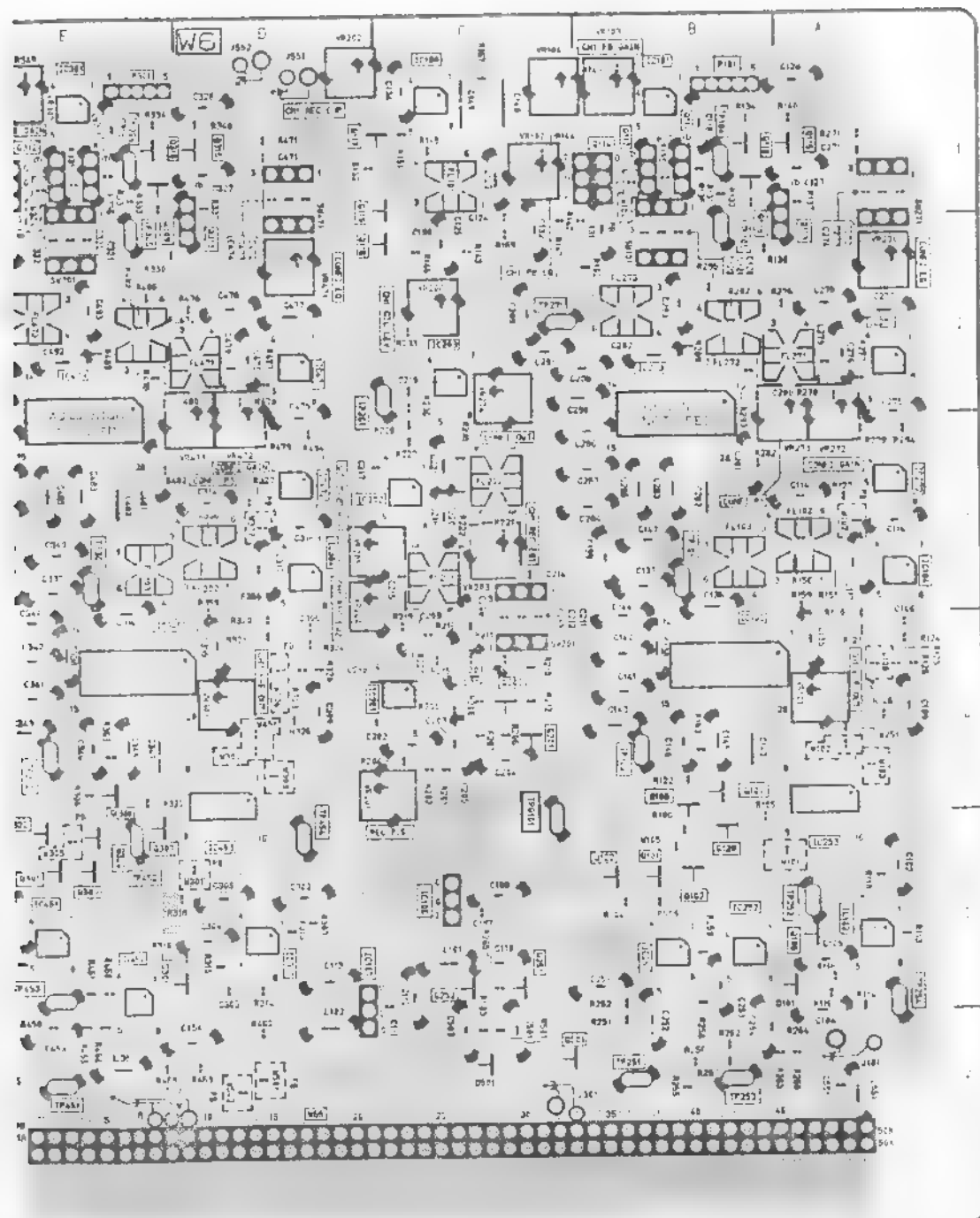
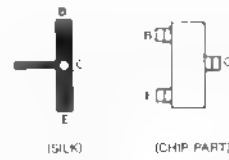


(FOIL SIDE)

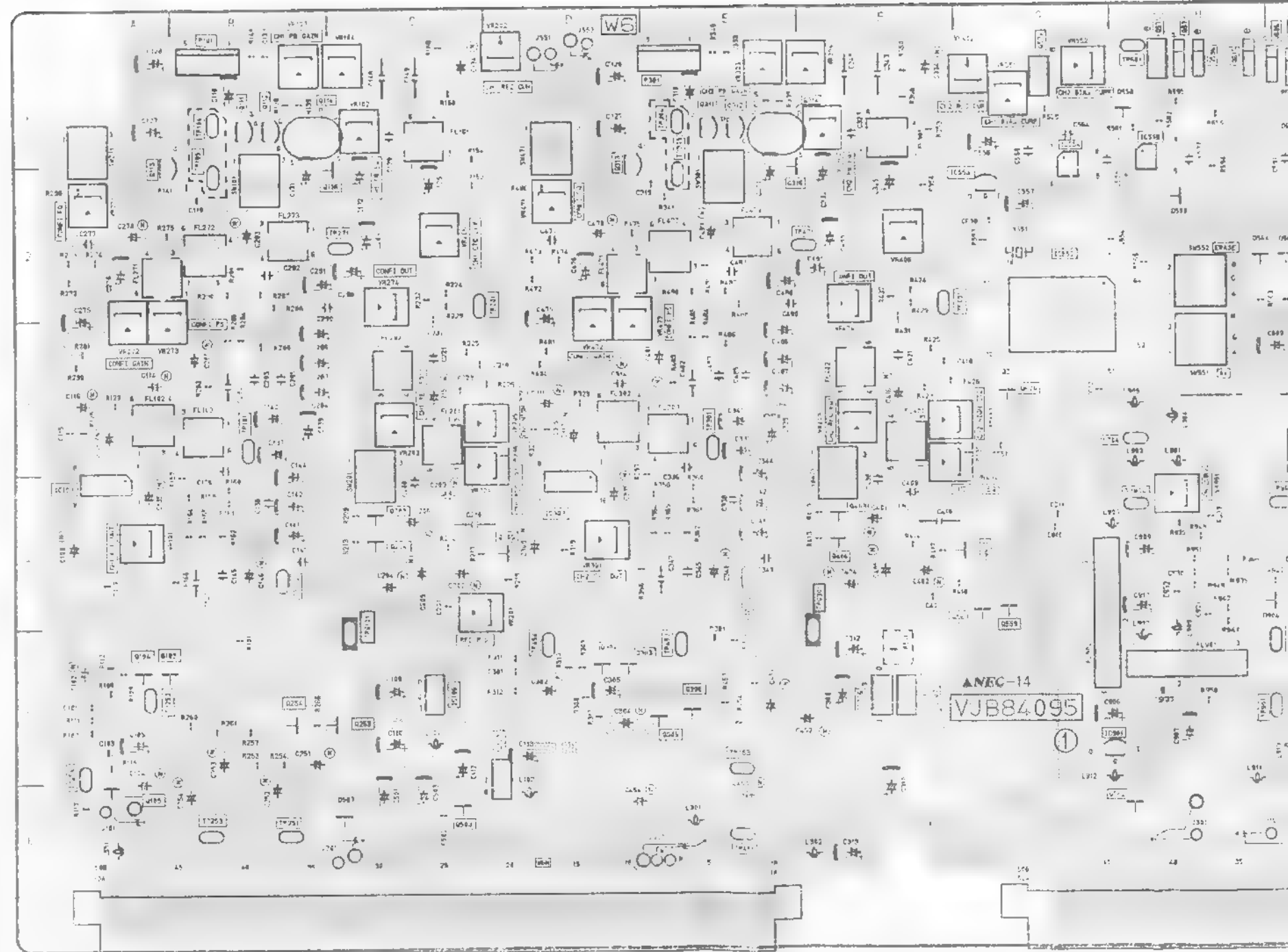
AU-665 PAL  
ONLY



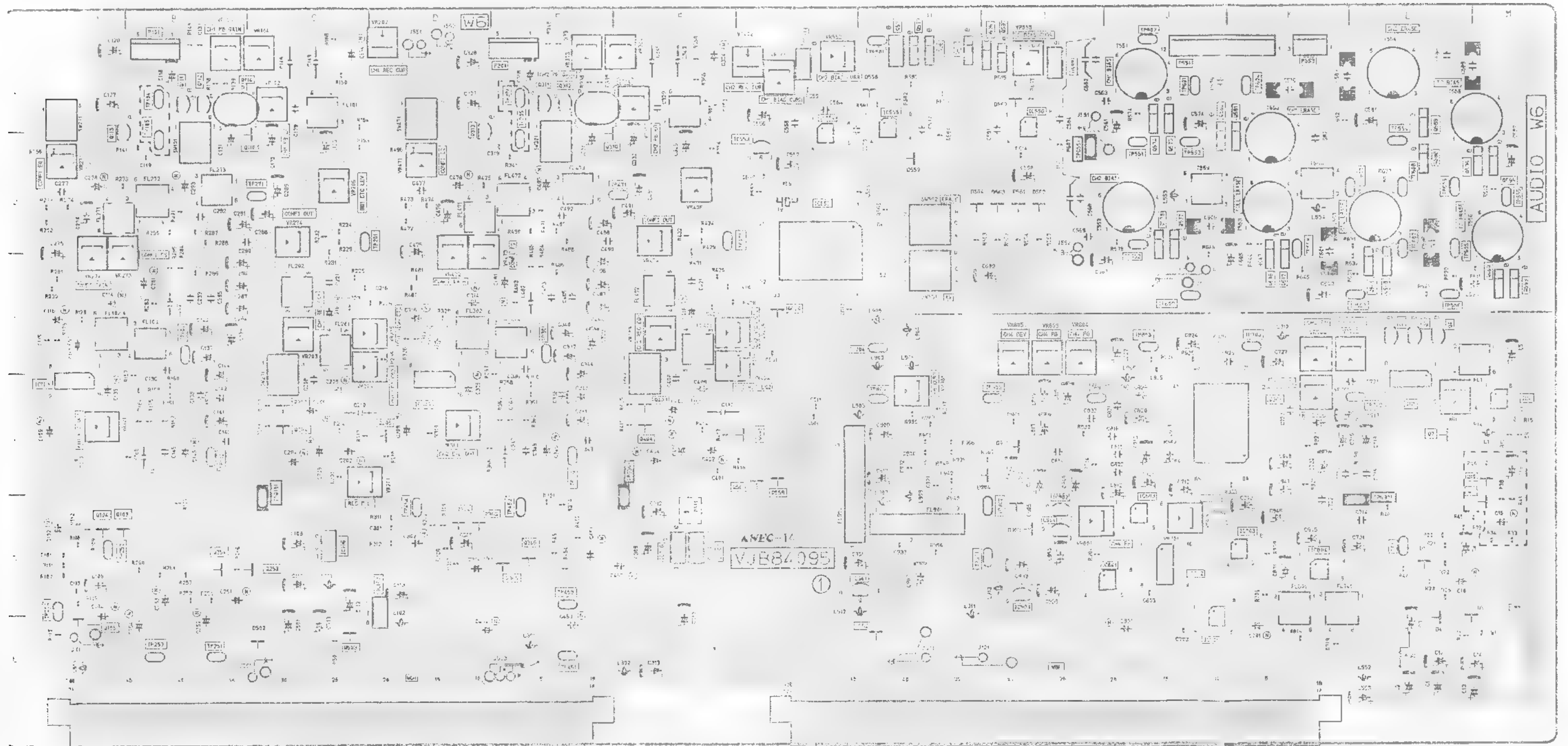
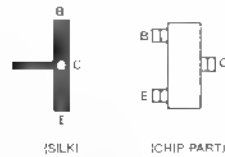
CHIP PART INFORMATION



(FOIL SIDE)



CHIP PART INFORMATION



(COMPONENT SIDE)

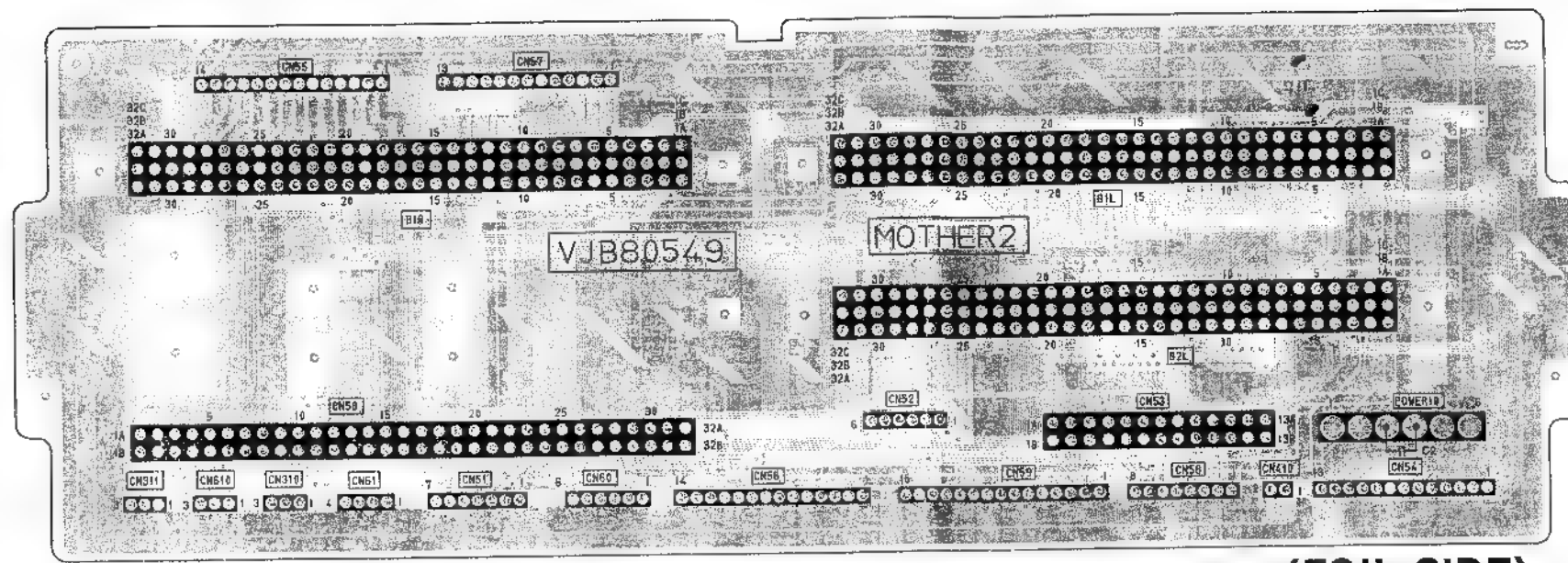
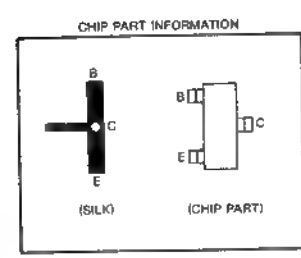
W6 (AUDIO)

| COMPONENT SIDE |     |                        |     |            |     |        |     |             |     | FOIL SIDE              |     |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|-----|------------------------|-----|------------|-----|--------|-----|-------------|-----|------------------------|-----|-------|-----|--|--|--|--|------|-----|--|--|--|--|------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Transistors    |     | Q609                   | L-3 | TP551      | J-2 | VR405  | G-3 | Transistors |     | Q568                   | H-2 | IC104 | A-3 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q3             | L-3 | Q615                   | H-1 | TP552      | J-2 | VR406  | F-2 | Q1          | L-6 | Q572                   | G-1 | IC105 | B-4 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q4             | L-3 | Q617                   | K-3 | TP553      | J-2 | VR471  | D-2 | Q2          | L-4 | Q576                   | G-1 | IC108 | C-1 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q5             | L-3 | Q618                   | K-3 | TP554      | L-2 | VR472  | D-3 | Q6          | M-4 | Q580                   | H-1 | IC201 | C-4 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q7             | L-4 | Q620                   | G-3 | TP555      | M-2 | VR473  | D-3 | Q9          | M-4 | Q583                   | J-1 | IC202 | C-3 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q8             | M-5 | Integrated<br>Circuits |     | TP556      | L-3 | VR474  | F-2 | Q11         | L-6 | Q584                   | J-1 | IC203 | C-2 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q10            | M-4 |                        |     | TP557      | L-3 | VR551  | G-1 | Q12         | L-6 | Q585                   | J-1 | IC251 | B-5 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q13            | A-5 |                        |     | TP558      | K-2 | VR552  | G-1 | Q101        | B-5 | Q587                   | H-1 | IC252 | B-5 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q103           | A-5 | IC1                    | L-4 | TP601      | J-1 | VR553  | I-1 | Q102        | B-5 | Q590                   | L-1 | IC253 | A-4 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q104           | A-5 | IC4                    | M-4 | TP602      | J-1 | VR701  | J-5 | Q106        | A-5 | Q591                   | K-1 | IC271 | A-2 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q105           | A-6 | IC103                  | A-4 | TP603      | L-2 | VR703  | K-3 | Q107        | B-4 | Q592                   | K-1 | IC272 | A-3 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q111           | B-1 | IC106                  | C-5 | TP604      | K-1 | VR704  | K-3 | Q108        | B-4 | Q594                   | J-1 | IC273 | B-2 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q112           | B-1 | IC107                  | D-5 | TP605      | L-3 | VR705  | K-4 | Q109        | B-1 | Q598                   | I-1 | IC301 | E-1 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q113           | A-2 | IC303                  | D-4 | TP606      | L-2 | VR801  | I-5 | Q110        | B-1 | Q601                   | L-3 | IC302 | D-5 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q114           | B-1 | IC306                  | F-5 | TP607      | L-2 | VR803  | I-3 | Q115        | A-1 | Q602                   | L-2 | IC304 | D-3 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q116           | C-2 | IC307                  | F-5 | TP608      | L-2 | VR804  | I-3 | Q117        | C-1 | Q603                   | L-2 | IC305 | E-4 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q203           | C-4 | IC552                  | G-2 | TP609      | J-3 | VR805  | I-3 | Q118        | C-2 | Q604                   | H-2 | IC308 | F-1 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q204           | C-4 | IC553                  | G-2 | TP702      | L-4 | VR901  | H-4 | Q119        | C-1 | Q605                   | H-1 | IC401 | F-4 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q205           | D-4 | IC554                  | G-2 | TP703      | K-3 | Others |     | Q120        | C-1 | Q607                   | I-1 | IC402 | F-3 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q253           | C-5 | IC555                  | H-1 | TP704      | H-3 |        |     | Q121        | B-5 | Q610                   | K-3 | IC403 | F-2 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q254           | B-5 | IC556                  | I-1 | TP802      | I-4 |        |     | Q122        | B-5 | Q611                   | K-2 | IC451 | E-5 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q303           | D-5 | IC701                  | J-6 | TP803      | J-3 | P101   | B-1 | Q201        | C-4 | Q612                   | K-2 | IC452 | E-5 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q304           | D-5 | IC703                  | K-5 | TP804      | H-4 | P301   | E-1 | Q202        | C-4 | Q613                   | H-2 | IC453 | D-4 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q305           | E-5 | IC703                  | K-5 | TP901      | I-5 | P551   | J-1 | Q251        | C-5 | Q614                   | H-1 | IC471 | D-2 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q306           | E-5 | IC801                  | J-5 | TP902      | I-5 | P553   | K-1 | Q252        | C-5 | Q616                   | H-1 | IC472 | D-3 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q311           | E-1 | IC802                  | J-5 | TP903      | I-4 |        |     | Q301        | E-5 | Q619                   | G-3 | IC473 | E-2 |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q312           | E-1 | IC803                  | J-5 | TP GND     |     |        |     | Q302        | E-5 | Q621                   | G-3 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q313           | D-1 | IC804                  | K-5 |            |     |        |     | Q307        | E-5 | Q701                   | J-6 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q314           | E-1 | IC805                  | K-4 | TPG101 C-5 |     |        |     | Q308        | E-4 | Q702                   | J-6 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q316           | E-2 | IC901                  | H-5 |            |     |        |     | TPG301      | F-5 | Q309                   | E-1 |       |     |  |  |  |  | Q801 | I-6 |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q403           | F-4 | IC902                  | I-5 | TPG551     | I-2 |        |     | Q310        | E-1 | Q802                   | I-6 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q404           | F-4 | IC903                  | I-5 | TPG901     | L-5 |        |     | Q315        | D-1 | Q901                   | I-4 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q405           | G-4 | IC904                  | I-5 | Test Pints |     |        |     | Q317        | F-1 | Q902                   | I-4 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q503           | C-6 | Adjustments            |     |            |     |        |     | Q318        | F-2 | Q903                   | I-5 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q559           | G-4 |                        |     | TP1        | L-5 |        |     | VR1         | L-4 | Q319                   | F-2 |       |     |  |  |  |  |      |     |  |  |  |  | Q904 | I-5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q562           | H-6 | TP101                  | B-3 | VR101      | A-4 |        |     | Q320        | E-5 | Q909                   | H-4 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q563           | G-4 | TP102                  | B-4 | VR102      | C-1 |        |     | Q322        | E-5 | Q910                   | H-4 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q571           | G-1 | TP104                  | B-1 | VR103      | B-1 |        |     | Q401        | F-4 | Q911                   | H-4 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q573           | J-1 | TP105                  | B-2 | VR104      | C-1 |        |     | Q402        | F-4 | Q912                   | H-4 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q574           | J-1 | TP201                  | C-2 | VR201      | C-4 |        |     | Q453        | F-6 | Q913                   | H-4 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q575           | H-1 | TP251                  | B-6 | VR202      | D-1 |        |     | Q454        | F-6 | Q914                   | H-4 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q577           | J-2 | TP252                  | A-5 | VR203      | C-3 |        |     | Q501        | C-6 | Q915                   | H-4 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q578           | J-2 | TP253                  | B-6 | VR204      | C-3 |        |     | Q502        | F-5 | Q916                   | G-4 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q579           | H-1 | TP254                  | A-5 | VR205      | C-3 |        |     | Q504        | F-5 | Q917                   | H-5 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q581           | K-2 | TP271                  | C-2 | VR206      | C-2 |        |     | Q551        | G-5 | Q919                   | H-6 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q582           | J-2 | TP301                  | E-3 | VR271      | A-2 |        |     | Q552        | G-4 | Q920                   | H-5 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q586           | H-1 | TP302                  | E-4 | VR272      | A-3 |        |     | Q553        | G-5 | Integrated<br>Circuits |     |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q588           | L-2 | TP304                  | E-1 | VR273      | A-3 |        |     | Q554        | G-3 |                        |     |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q589           | L-1 | TP305                  | E-2 | VR274      | C-2 |        |     | Q555        | G-5 |                        |     |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q593           | I-1 | TP401                  | F-2 | VR301      | D-4 |        |     | Q556        | G-3 |                        |     |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q595           | M-2 | TP451                  | E-6 | VR302      | F-1 |        |     | Q557        | G-5 | IC2                    | L-4 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q596           | M-2 | TP452                  | E-5 | VR303      | E-1 |        |     | Q558        | G-5 | IC3                    | M-6 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q597           | I-1 | TP453                  | E-5 | VR304      | F-1 |        |     | Q560        | G-5 | IC5                    | L-5 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q599           | M-3 | TP454                  | D-5 | VR402      | G-1 |        |     | Q561        | G-5 | IC6                    | L-6 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q600           | M-3 | TP471                  | F-2 | VR403      | F-3 |        |     | Q564        | G-3 | IC7                    | M-5 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q606           | I-1 | TP501                  | H-1 | VR404      | F-3 |        |     | Q565        | I-2 | IC14                   | M-6 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Q608           | L-3 |                        |     |            |     |        |     |             |     | IC101                  | B-1 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                |     |                        |     |            |     |        |     |             |     | IC102                  | A-5 |       |     |  |  |  |  |      |     |  |  |  |  |      |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

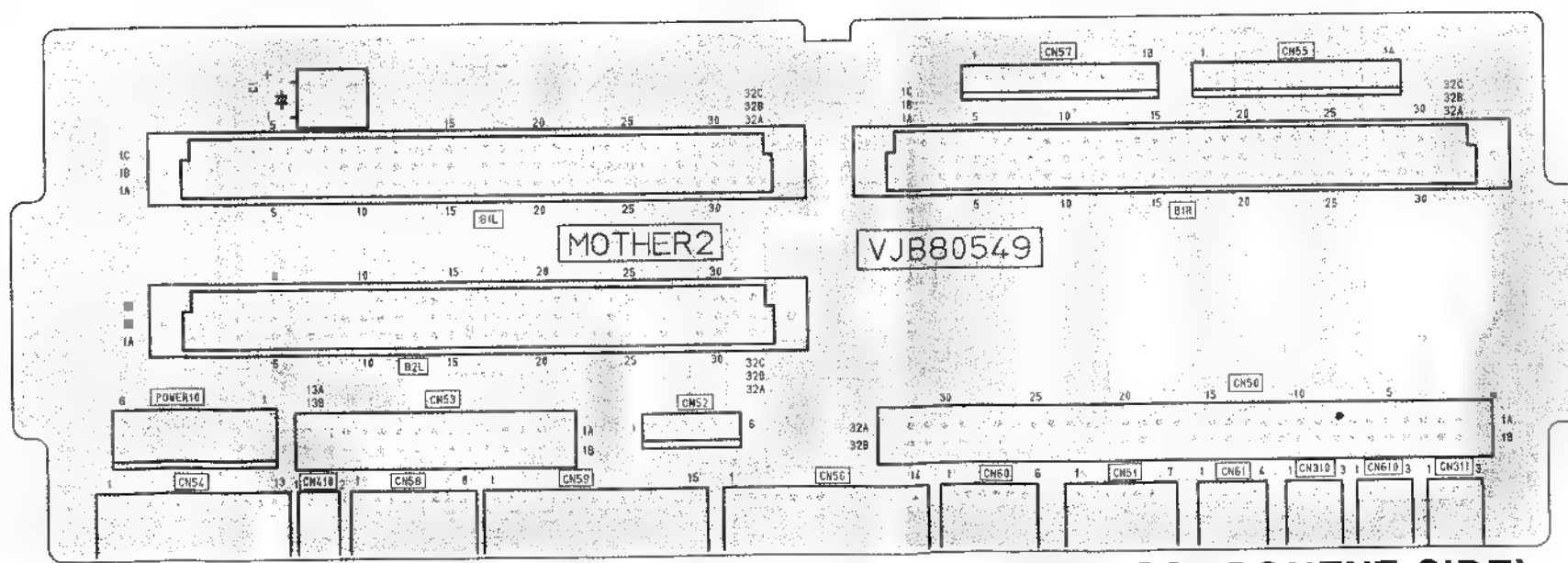


# BO(MOTHER 2)P.C.BOARD

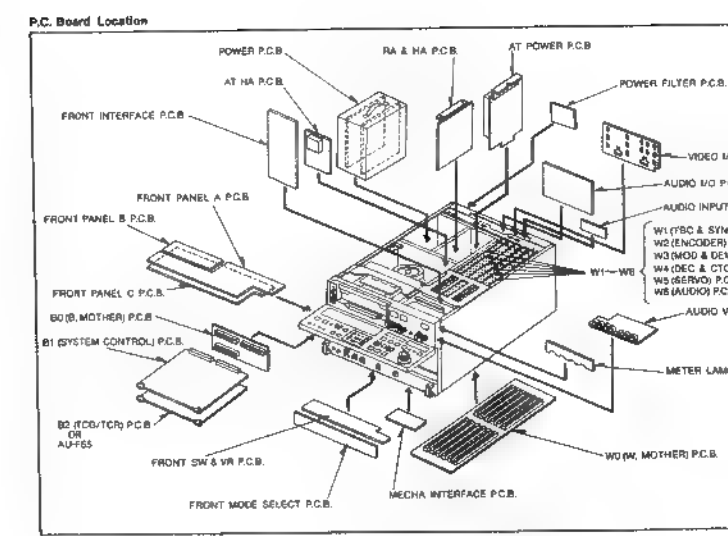
| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  |           |           |           |           |
| NTSC  | VEP80549B | VEP80549A | VEP80549B | VEP80549A |
| PAL   | VEP80549C | VEP80549A | VEP80549B | VEP80549A |



(FOIL SIDE)

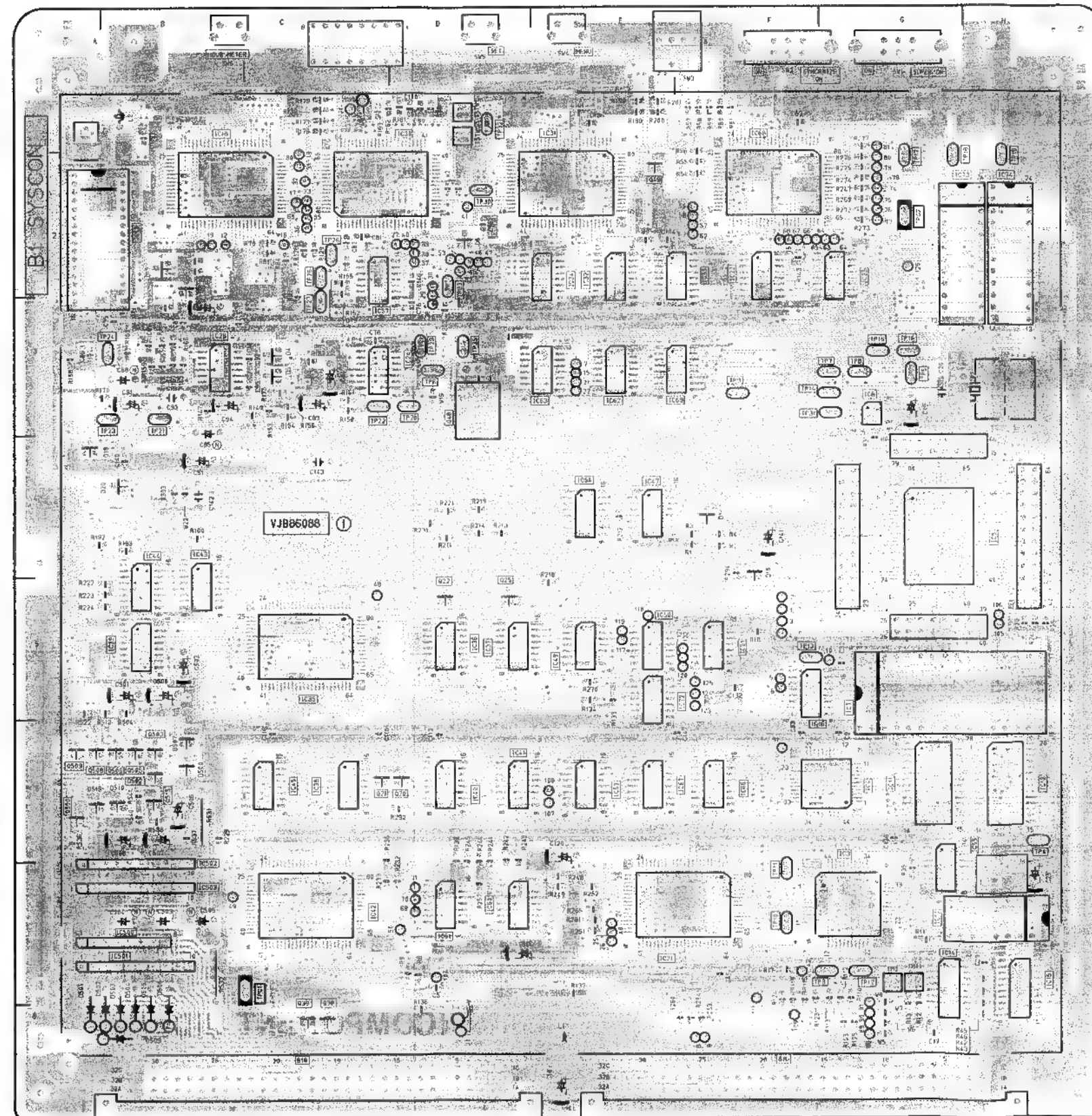


(COMPONENT SIDE)

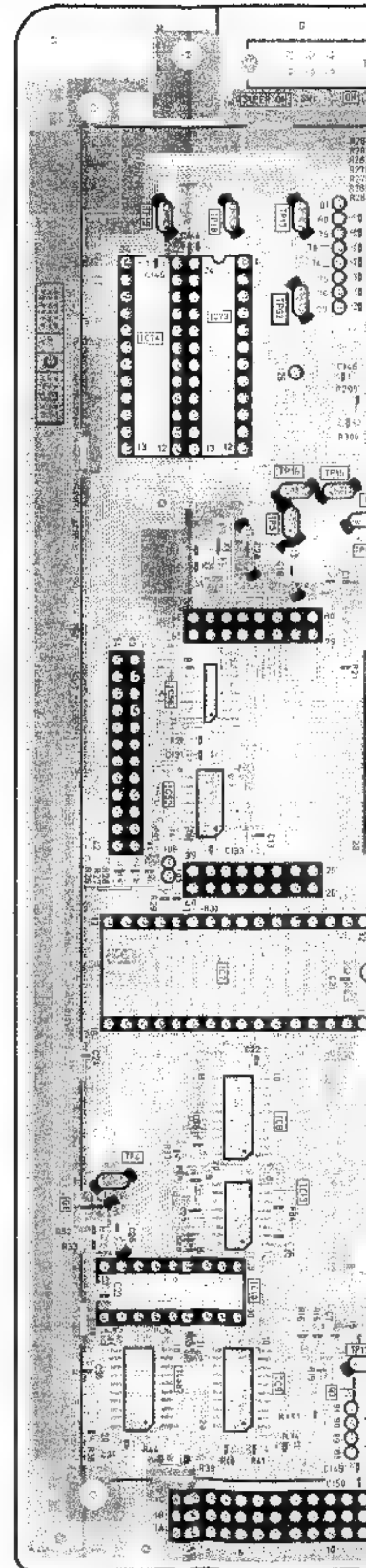


# B1(SYSTEM CONTROL)P.C.BOARD

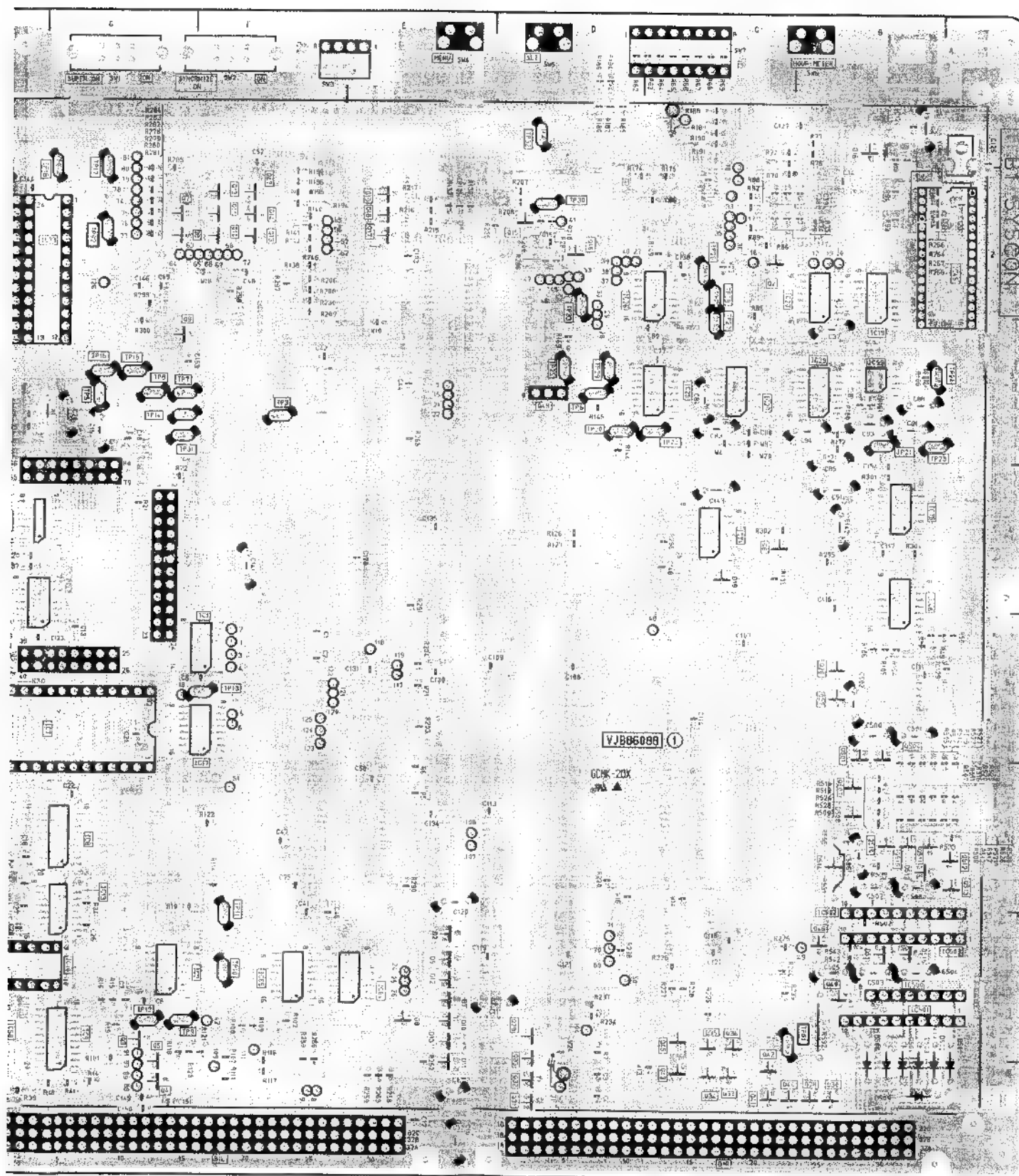
| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  |           |           |           |           |
| NTSC  | VEP86088B | VEP86088A | VEP86088D | VEP86088C |
| PAL   | VEP86088N | VEP86088E | VEP86088F | VEP86088M |



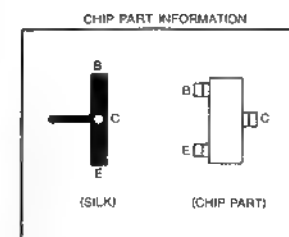
(COMPONENT SIDE)



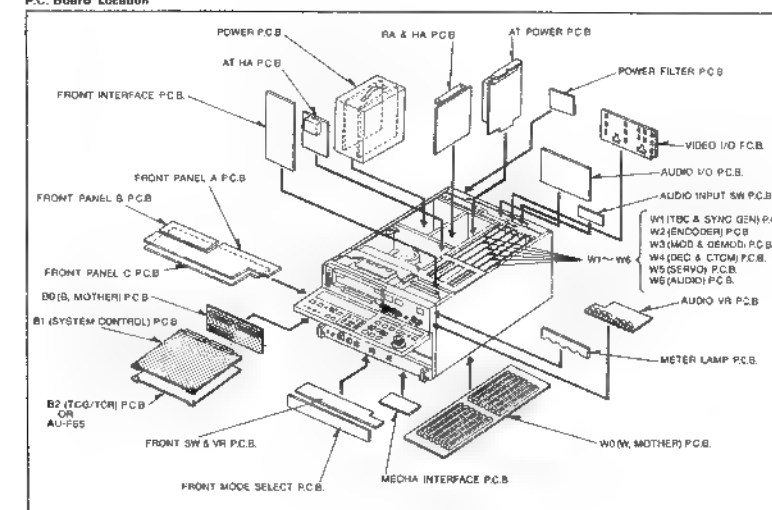




(FOIL SIDE)



P.C. Board Location

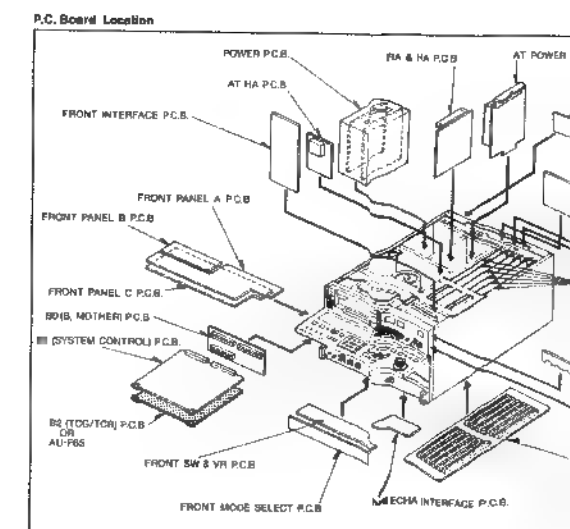


## B1 (SYSCON)

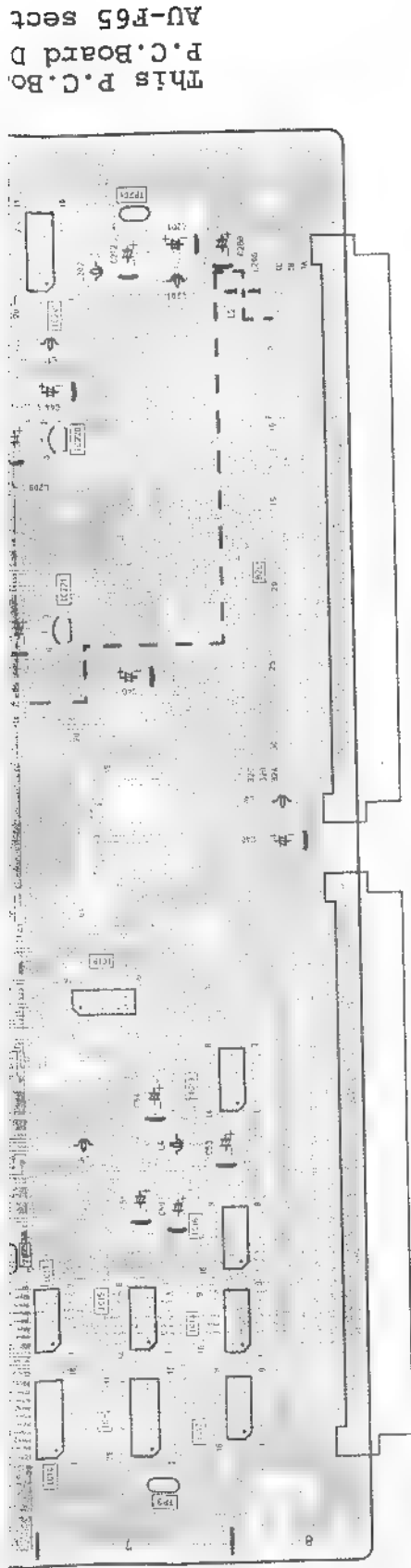
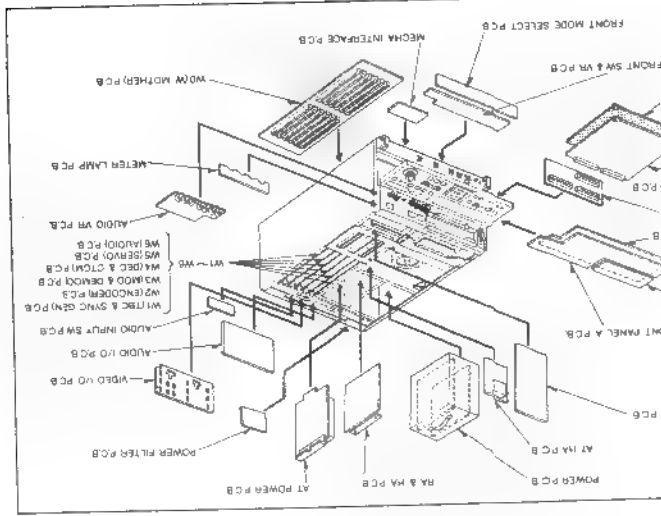
| COMPONENT SIDE         |     |             |     |        |     | FOIL SIDE              |     |      |     |  |  |
|------------------------|-----|-------------|-----|--------|-----|------------------------|-----|------|-----|--|--|
| Transistors            |     | IC50        | E-5 | TP GND |     | Transistors            |     | IC17 | F-5 |  |  |
|                        |     | IC51        | F-5 |        |     |                        |     | IC19 | B-2 |  |  |
| Q20                    | D-6 | IC53        | E-6 | TPG1   | C-7 | Q1                     | H-6 | IC20 | B-2 |  |  |
| Q21                    | C-6 | IC54        | E-4 | TPG2   | G-2 | Q2                     | C-2 | IC25 | C-3 |  |  |
| Q22                    | D-5 | IC55        | G-7 | Others |     | Q3                     | G-7 | IC26 | C-2 |  |  |
| Q25                    | D-5 | IC57        | C-2 |        |     | Q4                     | G-8 | IC27 | C-3 |  |  |
| Q38                    | C-8 | IC60        | D-7 | VC1    | A-1 | Q5                     | G-8 | IC29 | B-3 |  |  |
| Q39                    | C-8 | IC61        | D-7 |        |     | Q6                     | C-4 | IC48 | B-4 |  |  |
| Q48                    | D-3 | IC62        | E-3 |        |     | Q7                     | G-2 | IC52 | H-4 |  |  |
| Q49                    | E-2 | IC63        | E-3 |        |     | Q8                     | G-2 | IC56 | H-4 |  |  |
| Q500                   | A-6 | IC66        | F-6 |        |     | Q9                     | G-3 | IC58 | H-7 |  |  |
| Q502                   | B-6 | IC67        | E-6 |        |     | Q10                    | F-2 | IC59 | B-3 |  |  |
| Q503                   | B-6 | IC68        | F-2 |        |     | Q11                    | F-2 | IC64 | E-7 |  |  |
| Q505                   | B-6 | IC69        | F-3 |        |     | Q12                    | F-2 | IC65 | F-7 |  |  |
| Q506                   | B-6 | IC72        | E-5 |        |     | Q13                    | F-2 | IC71 | C-4 |  |  |
| Q508                   | A-6 | IC73        | H-2 |        |     | Q14                    | F-2 | IC75 | B-4 |  |  |
| Q509                   | A-6 | IC74        | H-2 |        |     | Q15                    | D-2 |      |     |  |  |
| Q515                   | B-6 | IC500       | B-7 |        |     | Q16                    | D-2 |      |     |  |  |
| Integrated<br>Circuits |     | IC501       | B-7 |        |     | Q17                    | E-2 |      |     |  |  |
|                        |     | IC502       | B-7 |        |     | Q18                    | E-2 |      |     |  |  |
|                        |     | IC503       | B-7 |        |     | Q19                    | E-2 |      |     |  |  |
| IC3                    | G-7 | Test Points |     |        |     | Q26                    | B-5 |      |     |  |  |
| IC4                    | G-6 | TP3         | F-3 |        |     | Q27                    | B-5 |      |     |  |  |
| IC5                    | G-4 | TP4         | H-6 |        |     | Q28                    | B-8 |      |     |  |  |
| IC6                    | G-3 | TP5         | G-3 |        |     | Q29                    | D-7 |      |     |  |  |
| IC7                    | G-6 | TP6         | D-3 |        |     | Q30                    | B-8 |      |     |  |  |
| IC10                   | H-7 | TP7         | G-3 |        |     | Q31                    | D-8 |      |     |  |  |
| IC11                   | G-6 | TP8         | G-3 |        |     | Q32                    | D-8 |      |     |  |  |
| IC12                   | H-6 | TP9         | G-7 |        |     | Q33                    | D-8 |      |     |  |  |
| IC14                   | G-7 | TP10        | F-7 |        |     | Q34                    | C-8 |      |     |  |  |
| IC15                   | H-7 | TP11        | F-7 |        |     | Q35                    | C-7 |      |     |  |  |
| IC16                   | F-5 | TP12        | G-7 |        |     | Q36                    | C-7 |      |     |  |  |
| IC18                   | B-2 | TP13        | F-5 |        |     | Q37                    | C-8 |      |     |  |  |
| IC21                   | F-7 | TP14        | G-3 |        |     | Q40                    | B-7 |      |     |  |  |
| IC22                   | F-2 | TP15        | G-3 |        |     | Q41                    | C-8 |      |     |  |  |
| IC23                   | G-2 | TP16        | G-3 |        |     | Q42                    | C-8 |      |     |  |  |
| IC24                   | C-3 | TP17        | G-2 |        |     | Q43                    | C-8 |      |     |  |  |
| IC28                   | B-3 | TP18        | G-2 |        |     | Q44                    | B-8 |      |     |  |  |
| IC30                   | C-2 | TP19        | H-2 |        |     | Q45                    | C-7 |      |     |  |  |
| IC31                   | E-2 | TP20        | D-3 |        |     | Q46                    | B-7 |      |     |  |  |
| IC32                   | E-2 | TP21        | B-3 |        |     | Q47                    | F-2 |      |     |  |  |
| IC33                   | F-2 | TP22        | C-3 |        |     | Q501                   | B-5 |      |     |  |  |
| IC34                   | E-2 | TP23        | B-3 |        |     | Q504                   | B-5 |      |     |  |  |
| IC35                   | C-5 | TP24        | B-3 |        |     | Q507                   | B-6 |      |     |  |  |
| IC36                   | D-5 | TP25        | D-3 |        |     | Q510                   | B-6 |      |     |  |  |
| IC37                   | D-5 | TP26        | C-2 |        |     | Q511                   | B-6 |      |     |  |  |
| IC38                   | C-6 | TP27        | C-3 |        |     | Q512                   | A-6 |      |     |  |  |
| IC39                   | B-5 | TP28        | C-2 |        |     | Q513                   | A-6 |      |     |  |  |
| IC40                   | D-6 | TP29        | D-3 |        |     | Q514                   | B-6 |      |     |  |  |
| IC41                   | D-6 | TP30        | D-2 |        |     | Integrated<br>Circuits |     |      |     |  |  |
| IC42                   | C-7 | TP31        | G-3 |        |     | IC1                    | F-5 |      |     |  |  |
| IC43                   | B-5 | TP32        | D-1 |        |     | IC2                    | G-7 |      |     |  |  |
| IC44                   | B-5 | TP33        | D-2 |        |     | IC8                    | G-6 |      |     |  |  |
| IC45                   | C-6 |             |     |        |     | IC9                    | G-7 |      |     |  |  |
| IC46                   | A-2 |             |     |        |     | IC13                   | G-7 |      |     |  |  |
| IC47                   | E-4 |             |     |        |     |                        |     |      |     |  |  |
| IC49                   | E-5 |             |     |        |     |                        |     |      |     |  |  |

## B2 (TCG/TCR)

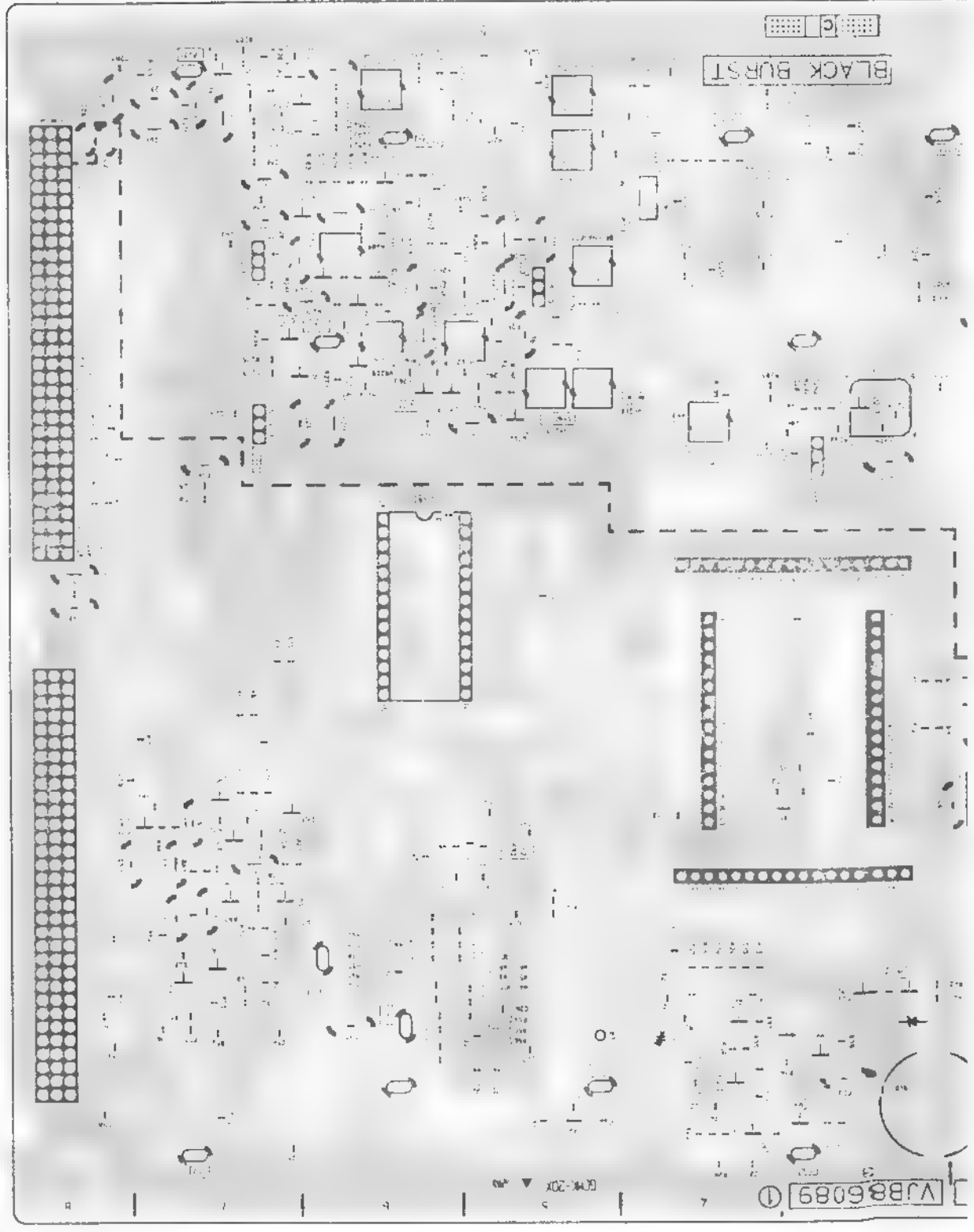
| COMPONENT SIDE         |            |  |  | FOIL SIDE  |   |  |
|------------------------|------------|--|--|--|---|--|
| Transistors            |            | TP5<br>TP6<br>TP201<br>TP202<br>TP203<br>TP204<br>TP205<br>TP206<br>TP207<br>TP208<br>TP209<br>TP210<br>TP211<br>TP212 | B-6<br>A-3<br>H-7<br>H-6<br>G-1<br>F-1<br>G-2<br>G-2<br>H-3<br>F-3<br>H-4<br>F-6 | Transistors  |   |  |
| Q202<br>Q203           | E-1<br>E-2 |  |  | Q1<br>Q2<br>Q3<br>Q4<br>Q5<br>Q6<br>Q7<br>Q8<br>Q9                                   | B-4<br>B-4<br>B-3<br>B-3<br>C-6<br>D-7<br>C-7<br>A-4<br>B-3                                     |  |
| Integrated<br>Circuits |            |  |  | Q201<br>Q204<br>Q205<br>Q206<br>Q207<br>Q208<br>Q209<br>Q210<br>Q211<br>Q212<br>Q213 | G-2<br>F-5<br>F-6<br>F-6<br>F-7<br>G-6<br>G-6<br>G-6<br>G-6<br>F-6                              |  |
| IC1                    | D-3        | TP GND   | B-1<br>H-1   | Others   | VR201<br>VR202<br>VR203<br>VR204<br>VR205<br>VR206<br>VR207<br>VR208<br>VR209<br>VR210<br>VR211 | H-5<br>H-6<br>H-5<br>H-2<br>G-5<br>F-5<br>F-5<br>F-6<br>G-6<br>F-4 |
| IC2                    | D-2        |  |  |  |   |  |
| IC3                    | C-2        |  |  |  |   |  |
| IC4                    | E-6        |  |  |  |   |  |
| IC5                    | E-5        |  |  |  |   |  |
| IC6                    | E-6        |  |  |  |   |  |
| IC7                    | D-4        |  |  |  |   |  |
| IC8                    | B-3        |  |  |  |   |  |
| IC9                    | B-7        |  |  |  |   |  |
| IC10                   | B-7        |  |  |  |   |  |
| IC11                   | B-5        |  |  |  |   |  |
| IC12                   | B-8        |  |  |  |   |  |
| IC13                   | B-8        |  |  |  |   |  |
| IC14                   | C-6        |  |  |  |   |  |
| IC15                   | B-7        |  |  |  |   |  |
| IC16                   | C-8        |  |  |  |   |  |
| IC17                   | B-7        |  |  |  |   |  |
| IC18                   | D-7        |  |  |  |   |  |
| IC19                   | C-8        |  |  |  |   |  |
| IC20                   | C-5        |  |  |  |   |  |
| IC21                   | C-5        |  |  |  |   |  |
| IC201                  | H-7        |  |  |  |   |  |
| IC202                  | G-3        |  |  |  |   |  |
| IC203                  | G-2        |  |  |  |   |  |
| IC204                  | H-2        |  |  |  |   |  |
| IC205                  | H-4        |  |  |  |   |  |
| IC206                  | H-5        |  |  |  |   |  |
| IC207                  | H-6        |  |  |  |   |  |
| IC208                  | H-3        |  |  |  |   |  |
| IC209                  | G-2        |  |  |  |   |  |
| IC210                  | F-2        |  |  |  |   |  |
| IC211                  | F-2        |  |  |  |   |  |
| IC212                  | F-2        |  |  |  |   |  |
| IC213                  | F-4        |  |  |  |   |  |
| IC215                  | F-5        |  |  |  |   |  |
| IC216                  | G-6        |  |  |  |   |  |
| IC217                  | F-4        |  |  |  |   |  |
| IC218                  | G-3        |  |  |  |   |  |
| IC220                  | G-7        |  |  |  |   |  |
| IC221                  | F-7        |  |  |  |   |  |
| IC222                  | E-2        |  |  |  |   |  |
| IC223                  | G-5        |  |  |  |   |  |
| IC224                  | F-3        |  |  |  |   |  |
| Test Points            |            |  |  |  |   |  |
| TP1                    | B-5        |  |  |  |   |  |
| TP2                    | B-6        |  |  |  |   |  |
| TP3                    | A-7        |  |  |  |   |  |
| TP4                    | C-6        |  |  |  |   |  |



**B2(TC & BB)P.C.BOARD**



|          |           |                         |       |       |
|----------|-----------|-------------------------|-------|-------|
| MATERIAL | AU 665    | AU-65                   | AU-63 | AU-62 |
| NTSC     | VEP8009B  | Refer to AU-F65 Section |       |       |
| PAL      | VEP8009AF |                         |       |       |

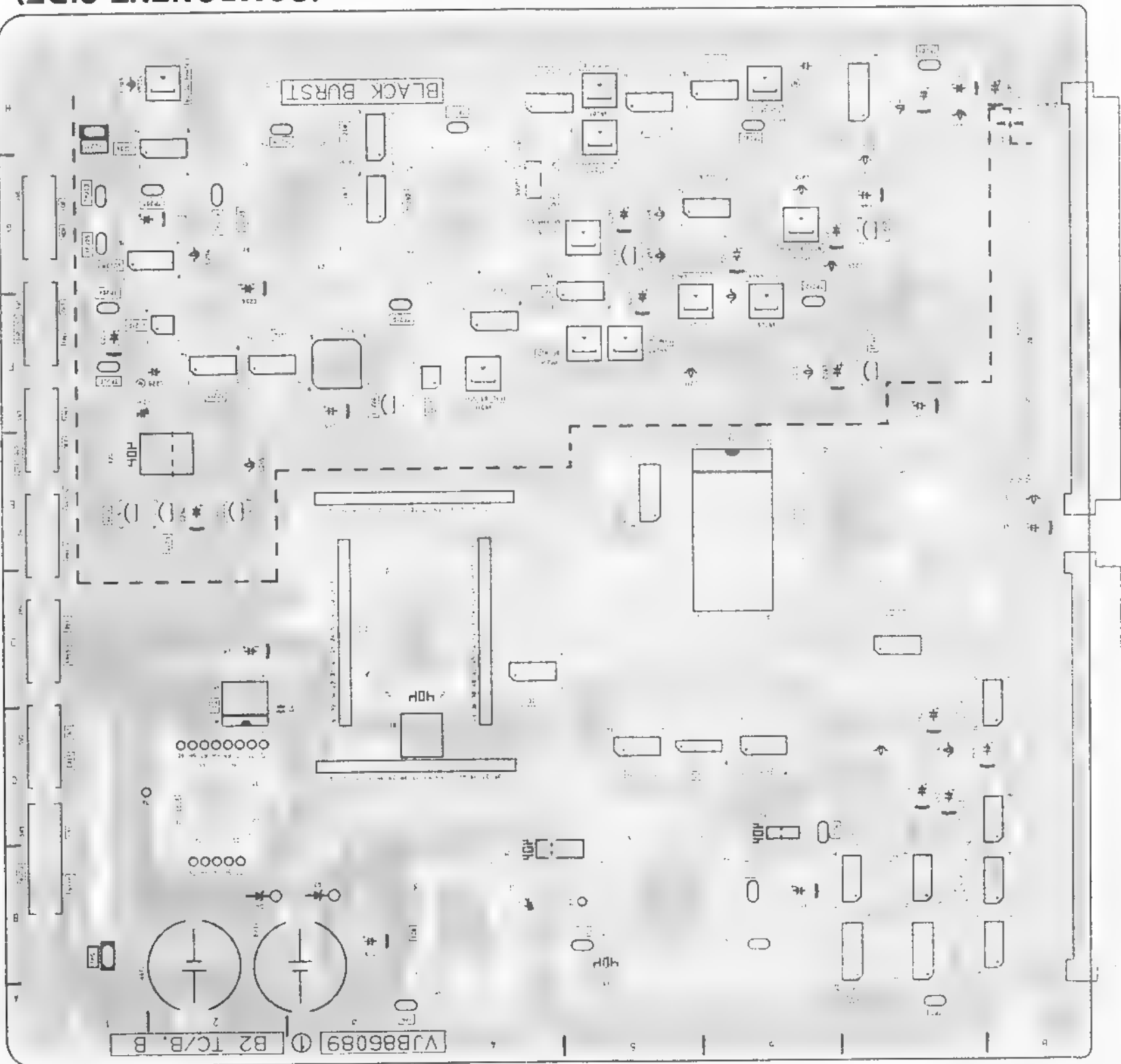


(FOIL SIDE)

This P.C. Board Diagram is used for AU-665.  
P.C. Board Diagram of AU-F65 is shown in  
AU-F65 section, page after 7-1.

5-3-17

REVERSE SIDE AT HA P.C. BOARD  
AT POWER P.C. BOARD  
AUDIO I/O P.C. BOARD



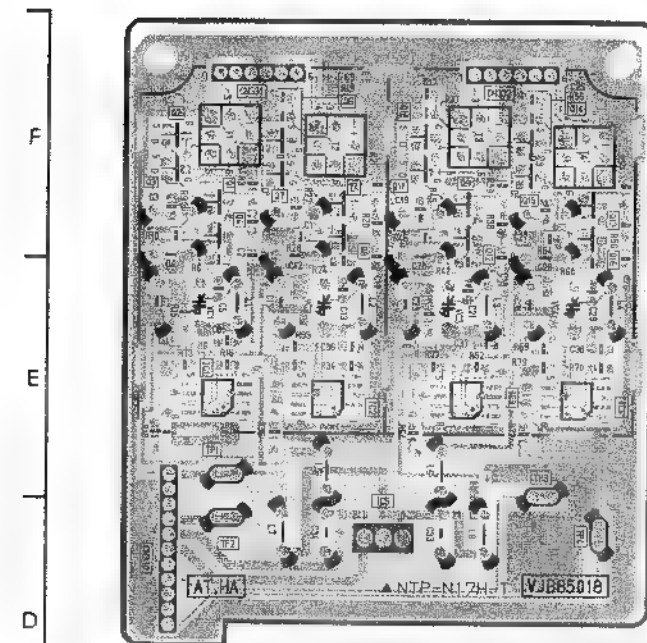
(COMPONENT SIDE)

# AT H.A P.C.BOARD

| MODEL | AU-665    | AU-65    | AU-63    | AU-62    |
|-------|-----------|----------|----------|----------|
| TYPE  |           |          |          |          |
| NTSC  | VEP85018A | Not Used | Not Used | Not Used |
| PAL   | VEP85018B | Not Used | Not Used | Not Used |

# AT POWER P.C.BOARD

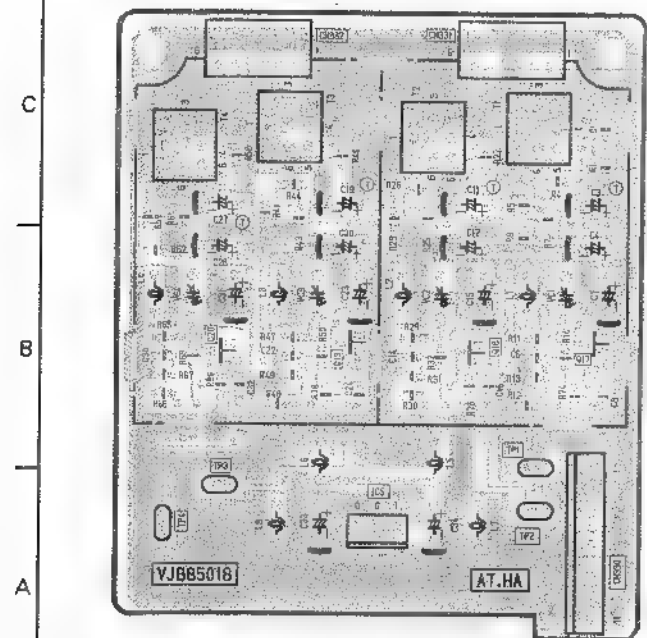
| MODEL | AU-665    | AU-65    | AU-63     | AU-62    |
|-------|-----------|----------|-----------|----------|
| TYPE  |           |          |           |          |
| NTSC  | VEP82062A | Not Used | VEP82062A | Not Used |
| PAL   | VEP82062A | Not Used | VEP82062A | Not Used |



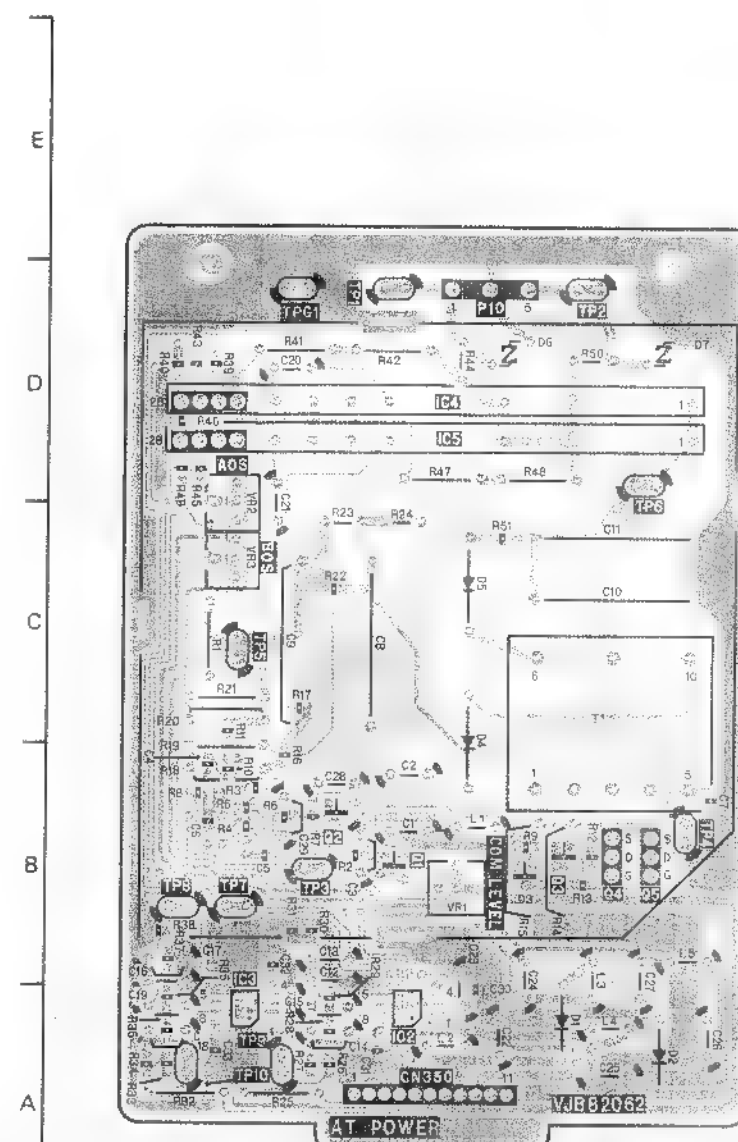
(FOIL SIDE)

| AT H.A             |     |
|--------------------|-----|
| FOIL SIDE          |     |
| TRANSISTOR         |     |
| Q1                 | F-1 |
| Q2                 | F-1 |
| Q3                 | F-1 |
| Q4                 | F-1 |
| Q5                 | F-2 |
| Q6                 | F-1 |
| Q7                 | F-1 |
| Q8                 | F-2 |
| Q9                 | F-2 |
| Q10                | F-2 |
| Q11                | F-2 |
| Q12                | F-2 |
| Q13                | F-3 |
| Q14                | F-2 |
| Q15                | F-2 |
| Q16                | F-3 |
| INTEGRATED CIRCUIT |     |
| IC1                | E-1 |
| IC2                | E-2 |
| IC3                | E-2 |
| IC4                | E-3 |
| IC5                | D-2 |
| TEST POINT         |     |
| TP1                | E-1 |
| TP2                | D-1 |
| TP3                | E-3 |
| TP4                | D-3 |
| CONNECTOR          |     |
| CN330              | D-1 |
| CN331              | F-1 |
| CN332              | F-2 |
| COMPONENT SIDE     |     |
| TRANSISTOR         |     |
| Q17                | B-3 |
| Q18                | B-2 |
| Q19                | B-2 |
| Q20                | B-1 |

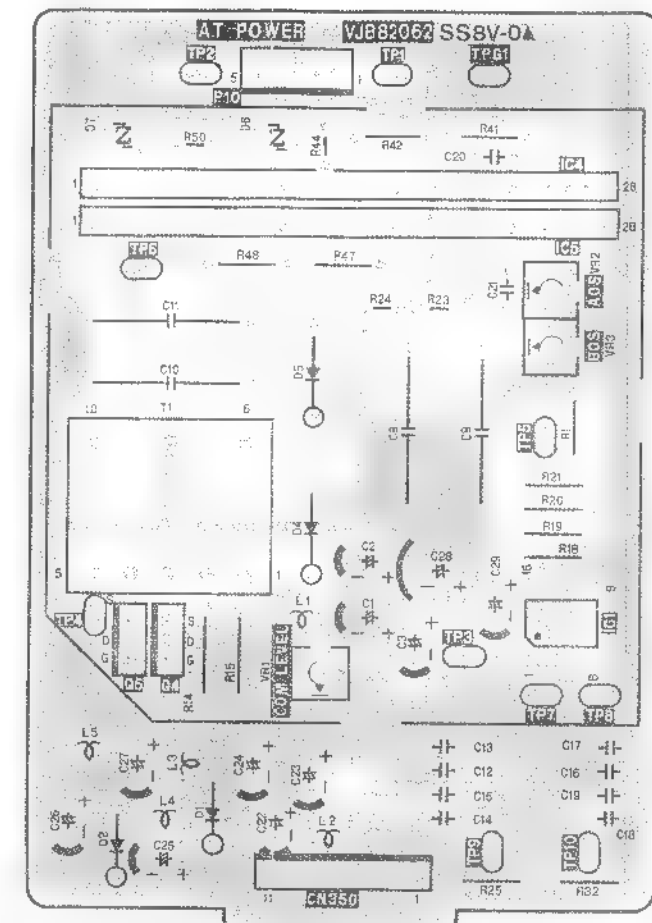
ADDRESS INFORMATION



(COMPONENT SIDE)



(FOIL SIDE)



(COMPONENT SIDE)

| AT POWER           |     |            |     |            |     |
|--------------------|-----|------------|-----|------------|-----|
| FOIL SIDE          |     | TEST POINT |     | ADJUSTMENT |     |
| TRANSISTOR         |     |            |     |            |     |
| Q1                 | B-2 | TP1        | D-2 | VR1        | B-2 |
| Q2                 | B-2 | TP2        | D-3 | VR2        | C-1 |
| Q3                 | B-3 | TP3        | B-2 | VR3        | C-1 |
| Q4                 | B-3 | TP4        | B-3 |            |     |
| Q5                 | B-3 | TP5        | C-1 |            |     |
|                    |     | TP6        | D-3 |            |     |
| INTEGRATED CIRCUIT |     | TEST POINT |     |            |     |
| IC2                | A-2 | TP7        | B-1 |            |     |
| IC3                | A-1 | TP8        | B-1 |            |     |
| IC4                | D-2 | TP9        | A-1 |            |     |
| IC5                | D-2 | TP10       | A-1 |            |     |
|                    |     | TPG1       | D-2 |            |     |

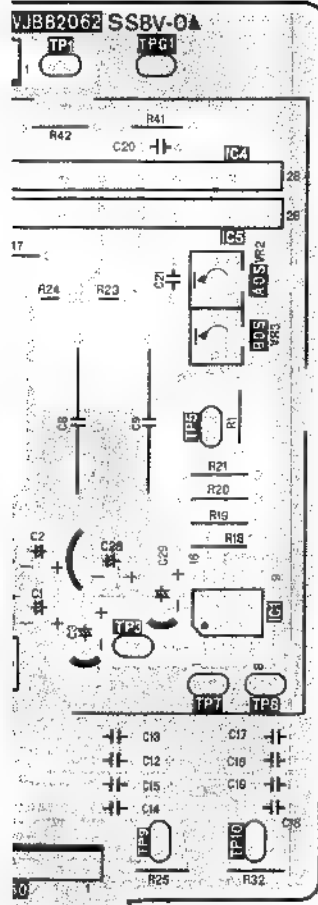
ADDRESS INFORMATION

AT.HA.):This P.C.Board Diagram is used for AU-665 only. AU-63's AT Head signal is amplified by RA&HA P.C.Board.

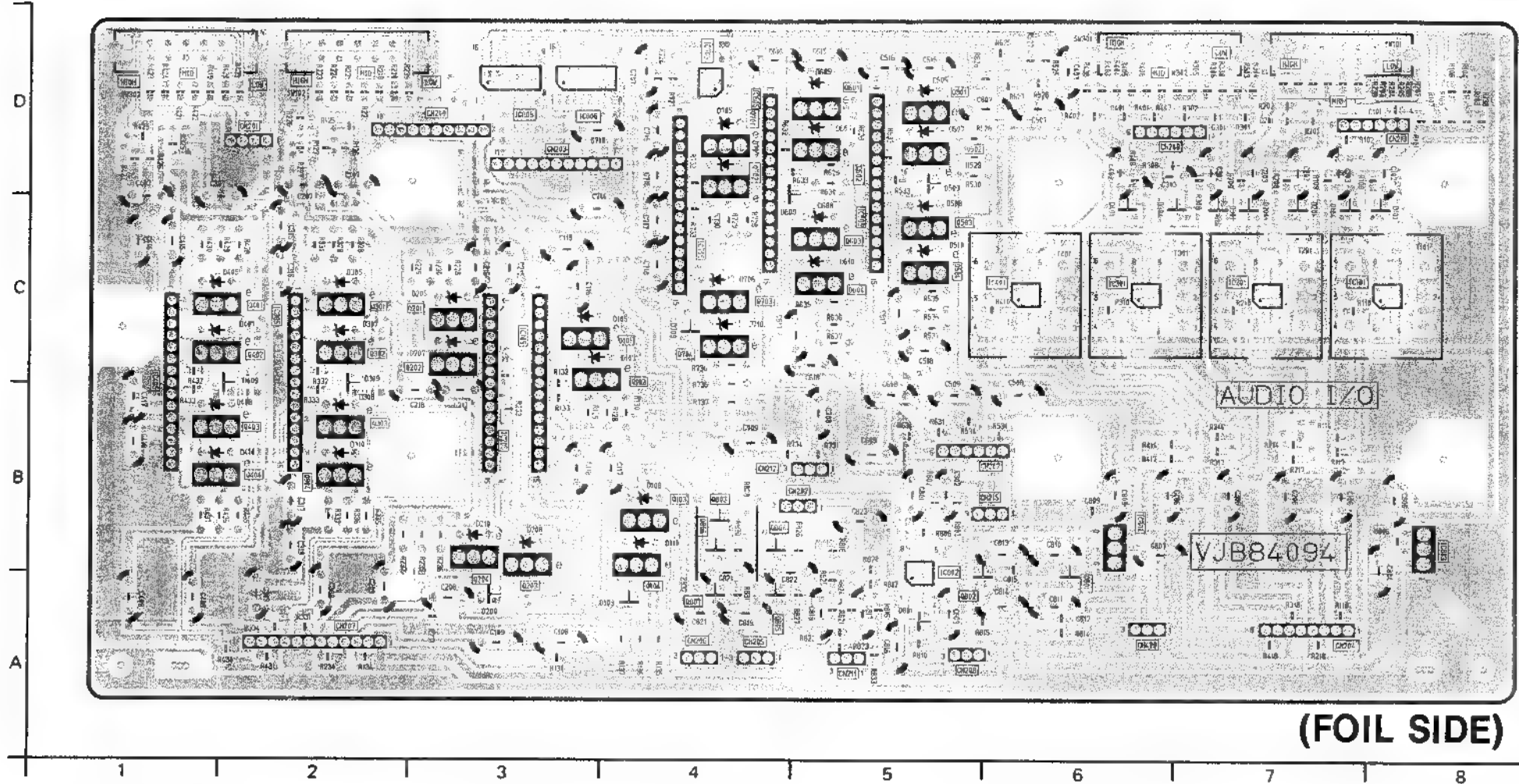


AUDIO I/O P.C.BOARD

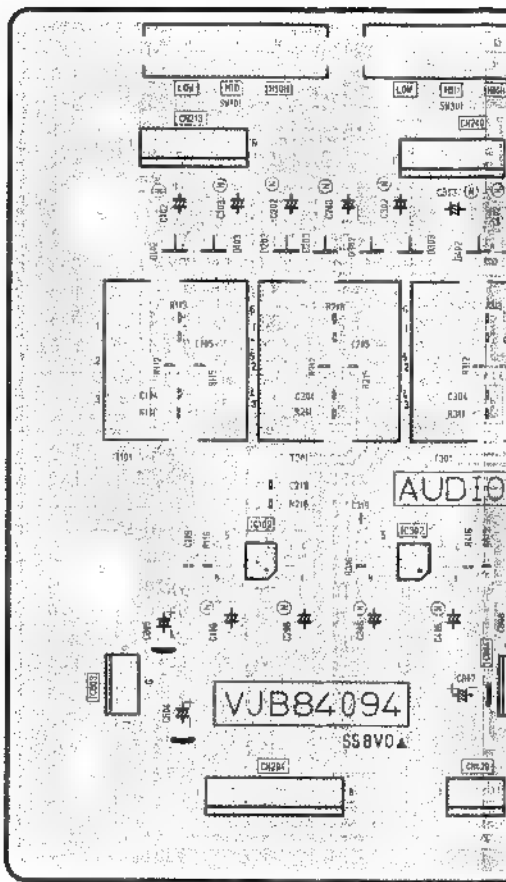
| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  |           |           |           |           |
| NTSC  | VEP84094B | VEP84094A | VEP84094C | VEP84094C |
| PAL   | VEP84094D | VEP84094A | VEP84094C | VEP84094C |



COMPONENT SIDE)



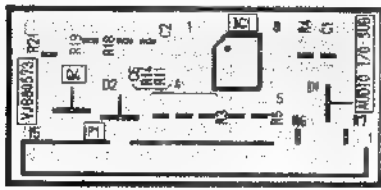
(FOIL SIDE)



AUDIO I/O P.C.BOARD SUB



(FOIL SIDE)

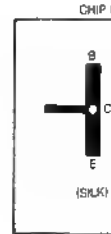


(COMPONENT SIDE)

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  |           |           |           |           |
| NTSC  | VEP80573A | VEP80573A | VEP80573A | VEP80573A |
| PAL   | VEP80573A | VEP80573A | VEP80573A | VEP80573A |

| AUDIO I/O  |     |                    |     |           |     |       |     |                |      |
|------------|-----|--------------------|-----|-----------|-----|-------|-----|----------------|------|
| FOIL SIDE  |     | Q504               | C-5 | IC301     | C-6 | CN206 | A-4 | COMPONENT SIDE |      |
| TRANSISTOR |     |                    |     |           |     |       |     | Q601           | D-5  |
| Q101       | C-3 | Q602               | D-5 | IC401     | C-6 | CN208 | A-5 | IC102          | B-10 |
| Q102       | C-3 | Q603               | C-5 | IC405     | C-1 | CN211 | A-5 | IC103          | D-15 |
| Q103       | B-4 | Q604               | C-5 | IC505     | C-5 | CN212 | B-5 | IC302          | B-10 |
| Q104       | B-4 | Q701               | D-4 | IC605     | D-4 | CN213 | D-8 | IC303          | D-16 |
| Q201       | C-3 | Q702               | D-4 | IC703     | D-4 | CN215 | B-6 | IC503          | D-11 |
| Q202       | C-3 | Q703               | C-4 | IC705     | C-4 | CN240 | D-6 | IC704          | D-13 |
| Q203       | B-3 | Q704               | C-4 | IC802     | B-5 | CN242 | B-5 | IC801          | B-12 |
| Q204       | B-3 | Q801               | A-6 | IC803     | B-8 | CN420 | A-6 | IC808          | B-12 |
| Q301       | C-2 | Q802               | A-5 | IC804     | B-6 |       |     |                |      |
| Q302       | C-2 | Q803               | B-4 | IC805     | D-3 |       |     |                |      |
| Q303       | B-2 | Q804               | B-4 | IC806     | D-3 |       |     |                |      |
| Q304       | B-2 | Q805               | A-4 |           |     |       |     |                |      |
| Q401       | C-2 | Q806               | B-4 |           |     |       |     |                |      |
| Q402       | C-2 | Q807               | A-4 | CONNECTOR |     |       |     |                |      |
| Q403       | B-2 | INTEGRATED CIRCUIT |     | CN200     | D-3 |       |     |                |      |
| Q404       | B-2 | IC101              | C-8 | CN201     | D-2 |       |     |                |      |
| Q501       | D-5 | IC105              | C-3 | CN202     | B-5 |       |     |                |      |
| Q502       | D-5 | IC201              | C-7 | CN203     | D-3 |       |     |                |      |
| Q503       | C-5 | IC205              | B-3 | CN204     | A-7 |       |     |                |      |
|            |     |                    |     | CN205     | A-4 |       |     |                |      |

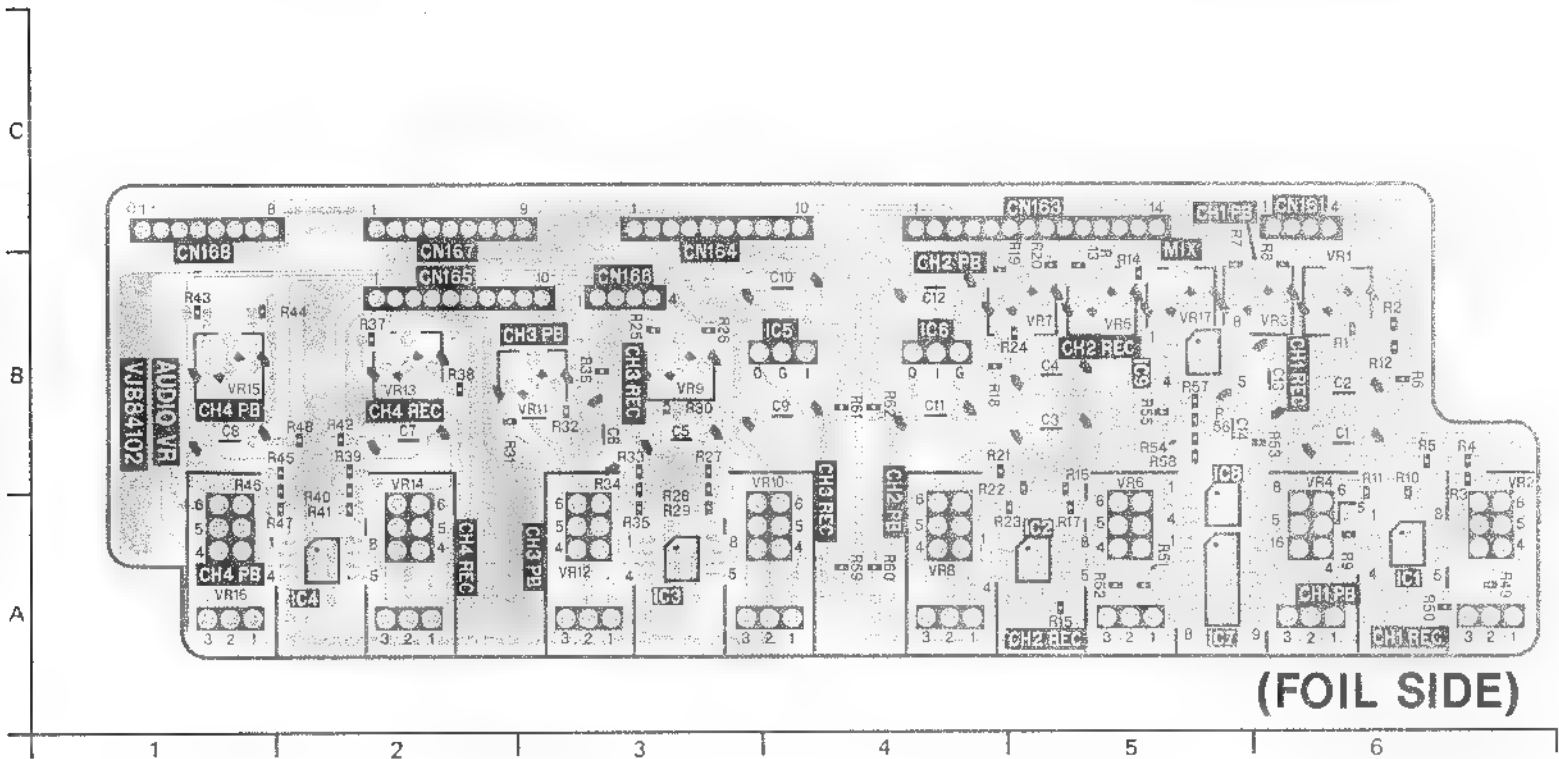
ADDRESS INFORMATION





AUDIO VR P.C.BOARD

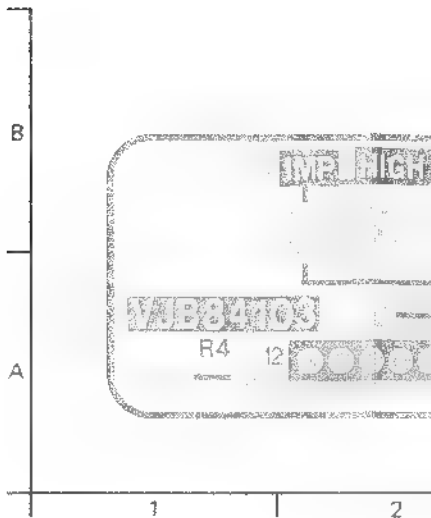
| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  |           |           |           |           |
| NTSC  | VEP84102A | VEP84101A | VEP84101C | VEP84101B |
| PAL   | VEP84102A | VEP84101A | VEP84101C | VEP84101B |



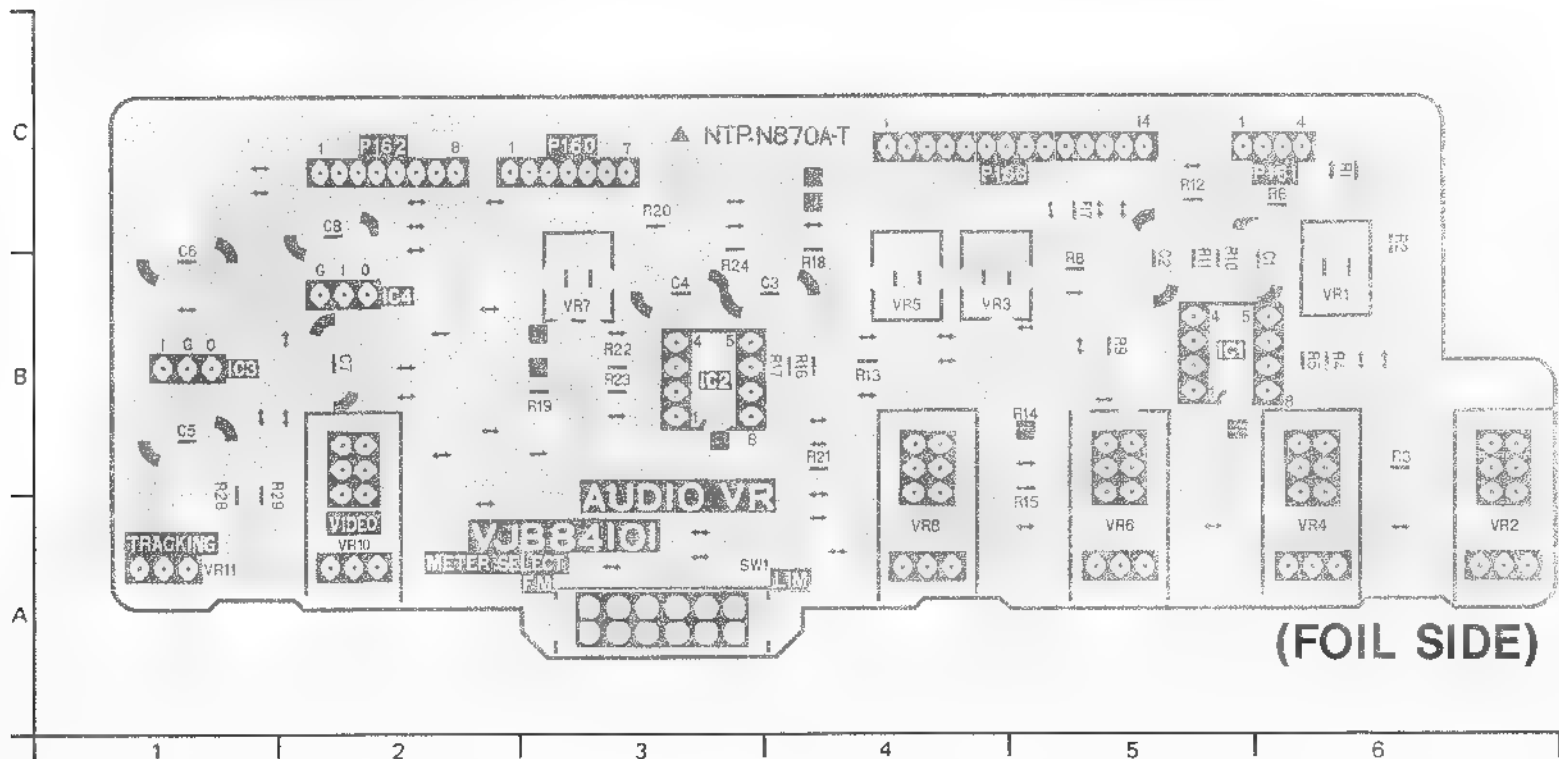
| AUDIO VR           |     |           |     |
|--------------------|-----|-----------|-----|
| FOIL SIDE          |     |           |     |
| INTEGRATED CIRCUIT |     | VR9       | B-3 |
| IC1                | A-6 | VR10      | A-4 |
| IC2                | A-5 | VR11      | B-3 |
| IC3                | A-3 | VR12      | A-3 |
| IC4                | A-2 | VR13      | B-2 |
| IC5                | B-4 | VR14      | A-2 |
| IC6                | B-4 | VR15      | B-1 |
| IC7                | A-5 | VR16      | A-1 |
| IC8                | A-5 | VR17      | B-5 |
| IC9                | B-5 | CONNECTOR |     |
| ADJUSTMENT         |     | CN161     | C-6 |
| VR1                | B-6 | CN163     | C-5 |
| VR2                | A-6 | CN164     | C-3 |
| VR3                | B-6 | CN165     | B-2 |
| VR4                | A-6 | CN166     | B-3 |
| VR5                | B-5 | CN167     | C-2 |
| VR6                | A-5 | CN168     | C-1 |
| VR7                | B-5 |           |     |
| VR8                | A-4 |           |     |

ADDRESS INFORMATION

AUDIO INPUT S



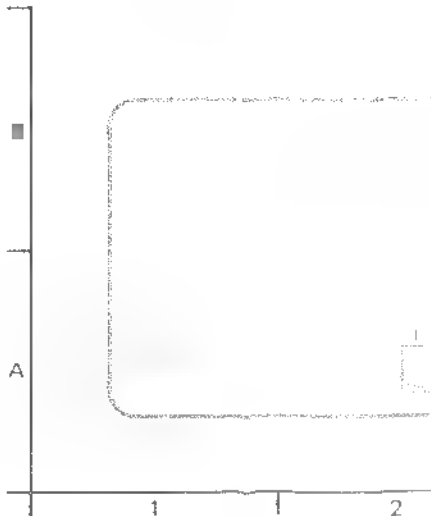
AUDIO VR P.C.BOARD



| AUDIO VR           |     |           |     |
|--------------------|-----|-----------|-----|
| FOIL SIDE          |     |           |     |
| INTEGRATED CIRCUIT |     | VR7       | B-3 |
| IC1                | B-5 | VR8       | A-4 |
| IC2                | B-3 | VR10      | A-2 |
| IC3                | B-2 | VR11      | A-1 |
| IC4                | B-1 | CONNECTOR |     |
| ADJUSTMENT         |     | P160      | C-3 |
| VR1                | B-6 | P161      | C-6 |
| VR2                | A-6 | P162      | C-2 |
| VR3                | B-4 | P163      | C-4 |
| VR4                | A-6 |           |     |
| VR5                | B-4 |           |     |
| VR6                | A-5 |           |     |

ADDRESS INFORMATION

FRONT MODE



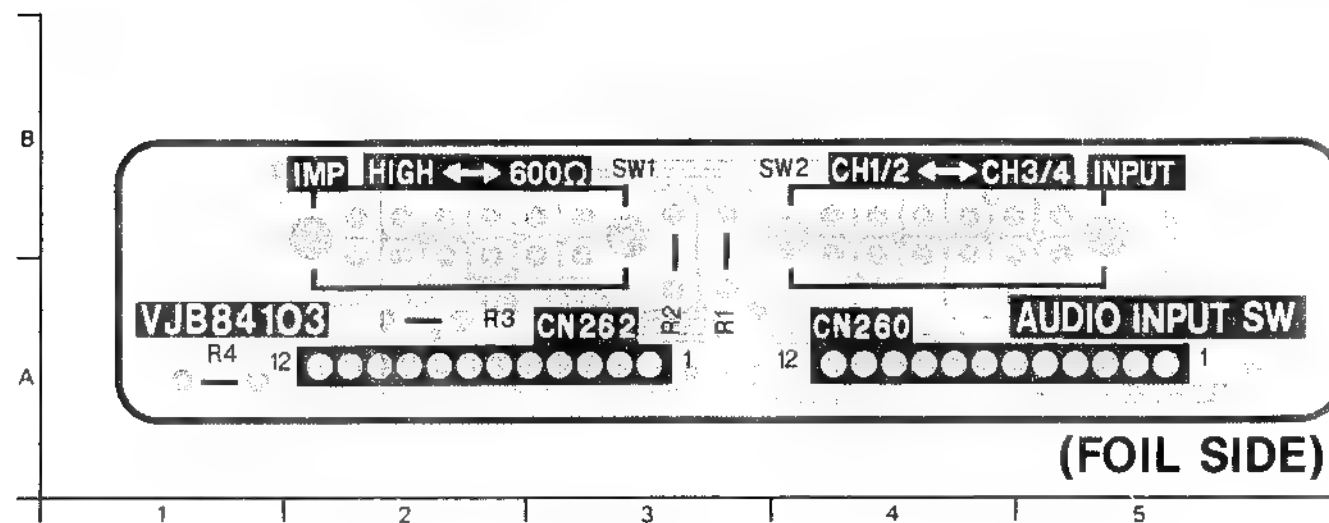


|     |  |
|-----|--|
| B-3 |  |
| A-4 |  |
| B-3 |  |
| A-3 |  |
| B-2 |  |
| A-2 |  |
| B-1 |  |
| A-1 |  |
| B-5 |  |
| C-6 |  |
| C-5 |  |
| C-3 |  |
| B-2 |  |
| B-3 |  |
| C-2 |  |
| C-1 |  |

|     |  |
|-----|--|
| B-3 |  |
| A-4 |  |
| A-2 |  |
| A-1 |  |
| C-3 |  |
| C-6 |  |
| C-2 |  |
| C-4 |  |

## AUDIO INPUT SW P.C.BOARD

| MODEL | AU-665    | AU-65    | AU-63    | AU-62    |
|-------|-----------|----------|----------|----------|
| TYPE  |           |          |          |          |
| NTSC  | VEP84103B | Not Used | Not Used | Not Used |
| PAL   | VEP84103A | Not Used | Not Used | Not Used |



| AUDIO OUTPUT SW     |     |
|---------------------|-----|
| FOIL SIDE           |     |
| CONNECTOR           |     |
| CN260               | A-3 |
| CN262               | A-4 |
| ADDRESS INFORMATION |     |

| MODEL | AU-665    | AU-65     | AU-63     |
|-------|-----------|-----------|-----------|
| TYPE  |           |           |           |
| NTSC  | VEP80422B | VEP80422B | VEP80422B |
| PAL   | VEP80422A | VEP80422B | VEP80422B |

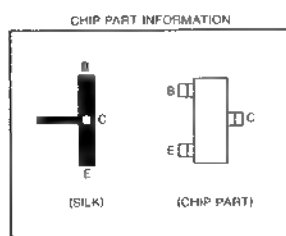
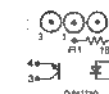
## EJECT INTER P.C.BOARD

(FOIL SIDE)

| P115 | P112 |
|------|------|
| 4 1  | 4 1  |

| MODEL | AU-665    | AU-65     | AU-63     |
|-------|-----------|-----------|-----------|
| TYPE  |           |           |           |
| NTSC  | VEP00E30A | VEP00E30A | VEP00E30A |
| PAL   | VEP00E30A | VEP00E30A | VEP00E30A |

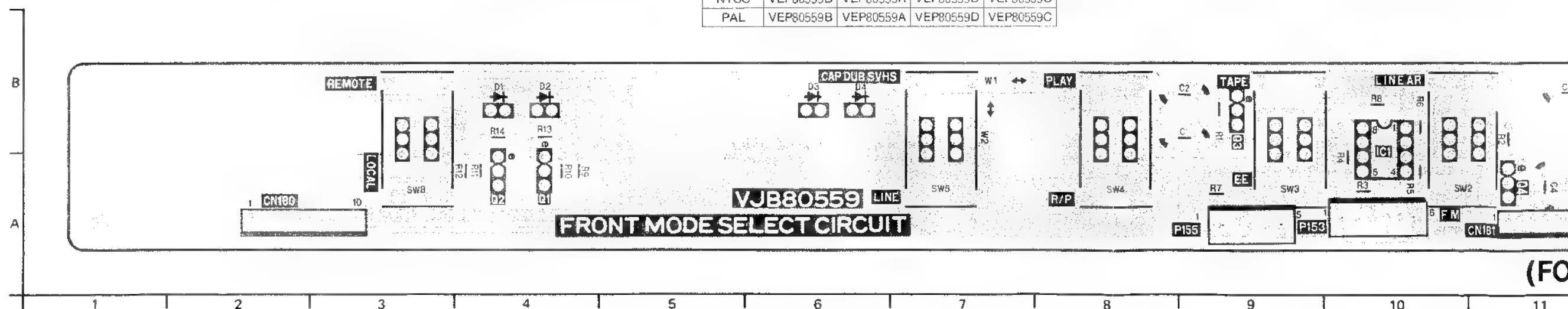
## CASSETTE DETECT P.C.BOARD (FOIL SIDE)



| FRONT MODE SELECT CIRCUIT |      |           |      |
|---------------------------|------|-----------|------|
| FOIL SIDE                 |      | CONNECTOR |      |
| TRANSISTOR                |      | CN180     | A-2  |
| Q1                        | A-4  | CN181     | A-11 |
| Q2                        | A-4  | P153      | A-10 |
| Q3                        | B-9  | P155      | A-9  |
| Q4                        | A-11 |           |      |
| INTEGRATED CIRCUIT        |      |           |      |
| IC1                       | B-10 |           |      |
| ADDRESS INFORMATION       |      |           |      |

## FRONT MODE SELECT CIRCUIT P.C.BOARD

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  |           |           |           |           |
| NTSC  | VEP80559B | VEP80559A | VEP80559D | VEP80559C |
| PAL   | VEP80559B | VEP80559A | VEP80559D | VEP80559C |



**P115**

**P112**

OD<sub>600 nm</sub>

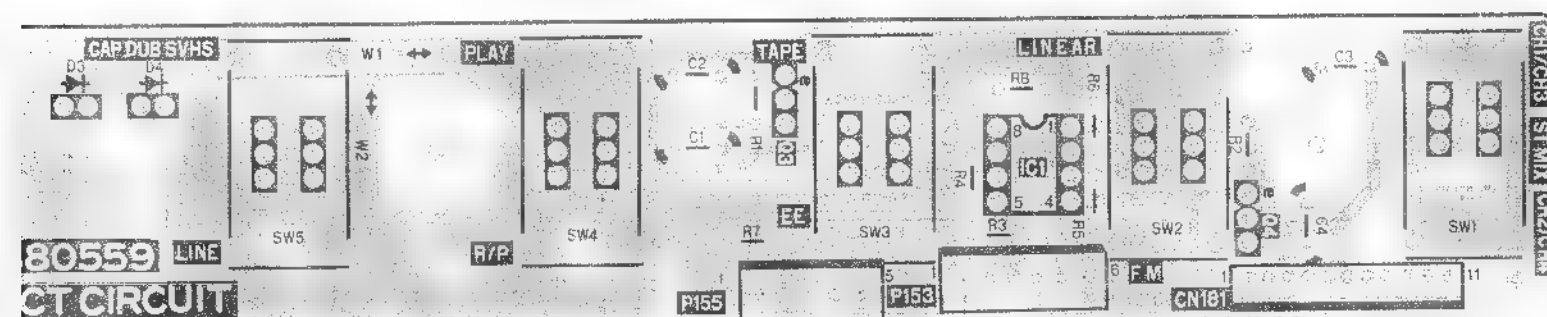
Time (h)

Wild-type

Mutant

| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP00E30A | VEP00E30A | VEP00E30A | VEP00E30A |
| PAL           | VEP00E30A | VEP00E30A | VEP00E30A | VEP00E30A |

| AU-665   | AU-65     | AU-63     | AU-62     |
|----------|-----------|-----------|-----------|
| EP80559B | VEP80559A | VEP80559D | VEP80559C |
| EP80559B | VEP80559A | VEP80559D | VEP80559C |



**(FOIL SIDE)**

| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP00E08C | VEP00E08C | VEP00E08C | VEP00E08C |
| PAL           | VEP00E08C | VEP00E08C | VEP00E08C | VEP00E08C |

| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP80232A | VEP80232A | VEP80232A | VEP80232A |
| PAL           | VEP80232A | VEP80232A | VEP80232A | VEP80232A |

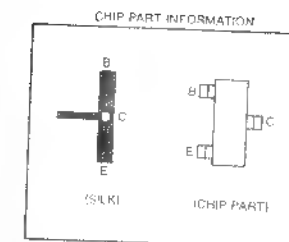
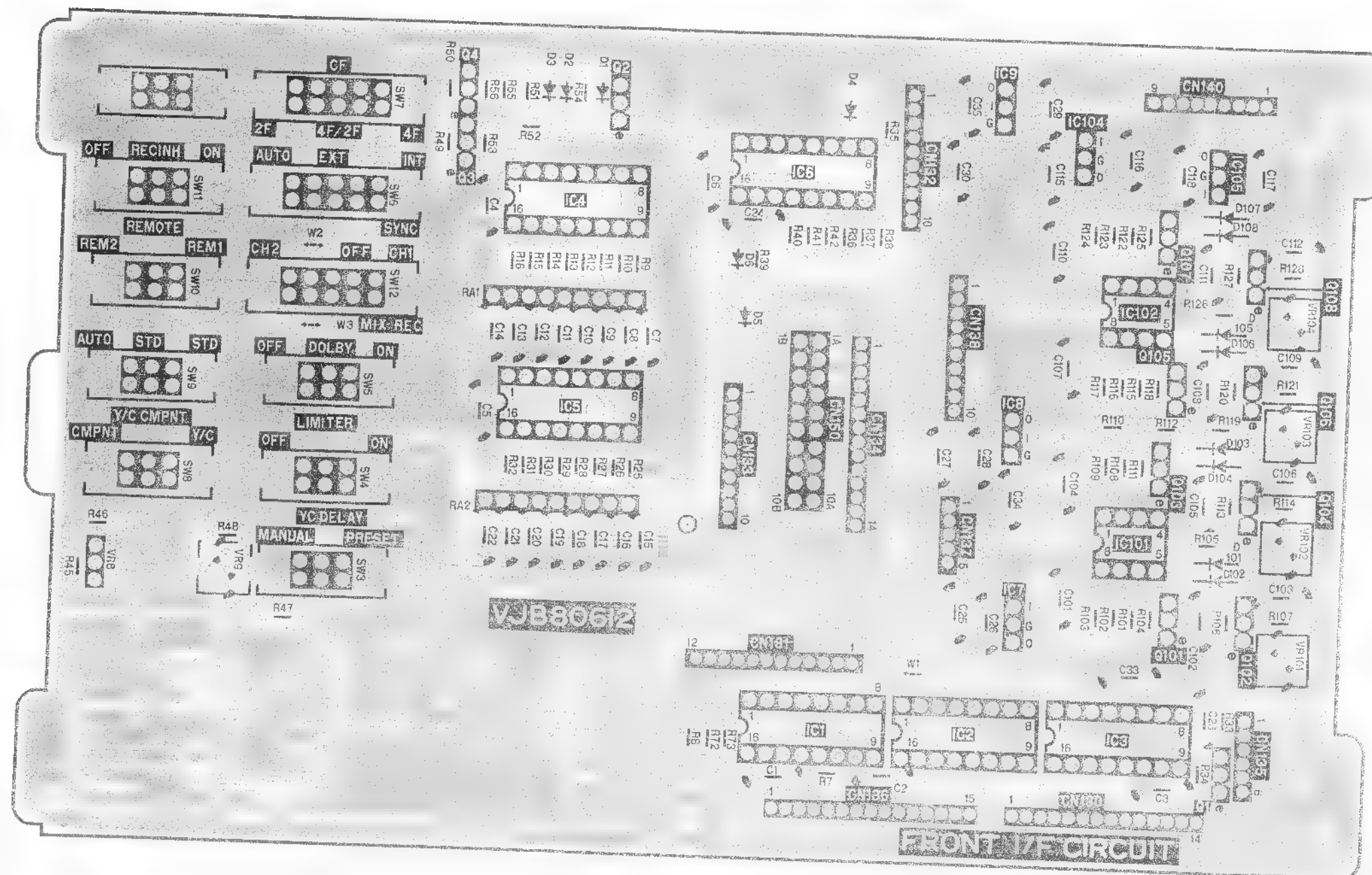
| MODEL<br>TYPE | AU-665    | AU-65     | AU-63     | AU-62     |
|---------------|-----------|-----------|-----------|-----------|
| NTSC          | VEP00E72A | VEP00E72A | VEP00E72A | VEP00E72A |
| PAL           | VEP00E72A | VEP00E72A | VEP00E72A | VEP00E72A |

The diagrams illustrate three types of chemical bonds:

- Ionic Bond:** Two separate circles, each containing a single dot (representing an electron). An arrow points from the circle with one dot to the circle with two dots, indicating the transfer of an electron.
- Covalent Bond:** Two circles, each containing a single dot. An arrow points from each circle to a central point where the two dots meet, representing the sharing of electron pairs.
- Metallic Bond:** Three circles, each containing a single dot. Arrows point from each circle to a central point where the three dots meet, representing the delocalization of electrons in a metal lattice.

# FRONT INTERFACE P.C.BOARD)

| MODEL | AU-665 | AU-65     | AU-63         | AU-62 |
|-------|--------|-----------|---------------|-------|
| TYPE  | NTSC   | VEP80612A |               |       |
| PAL   |        |           | See Next Page |       |



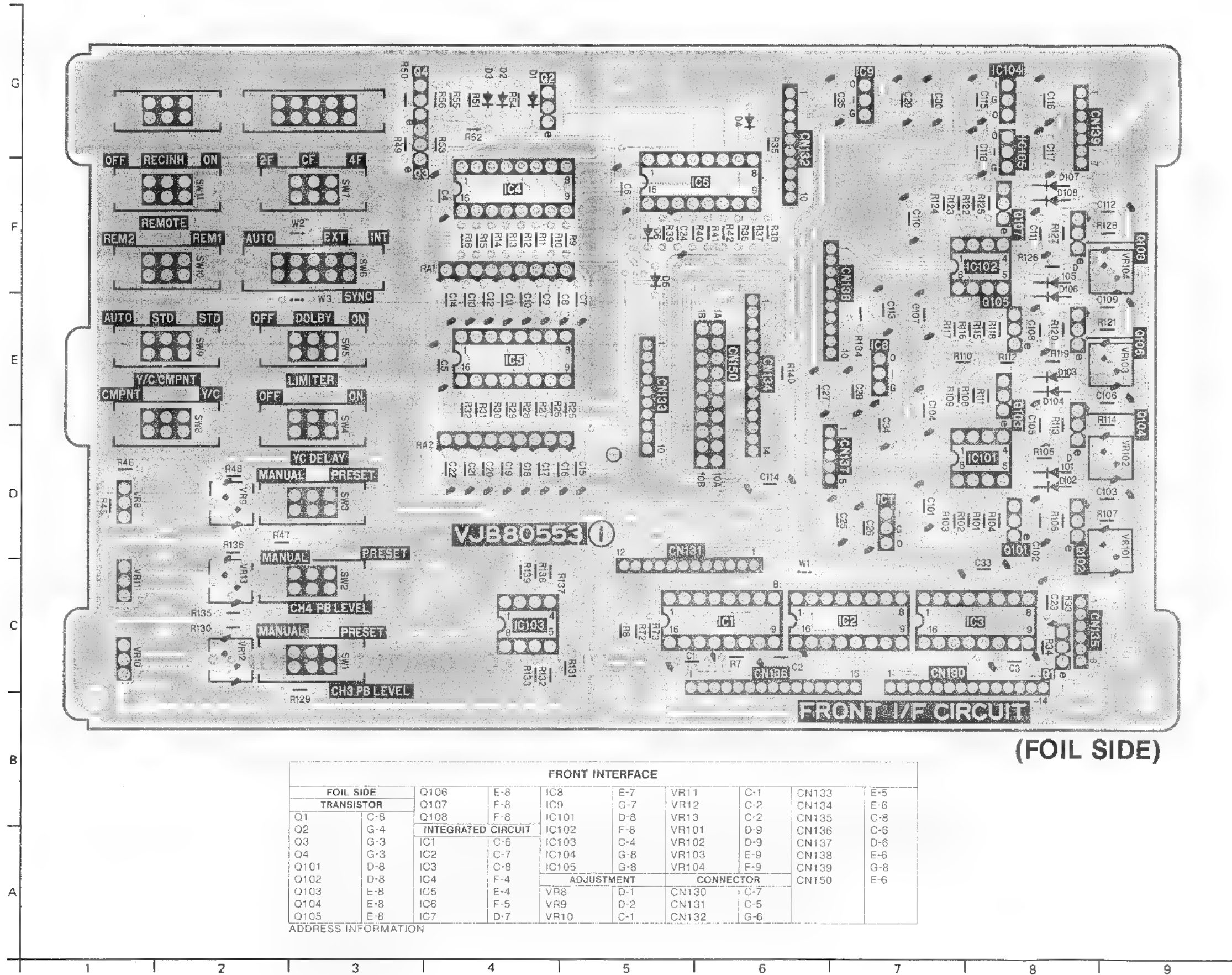
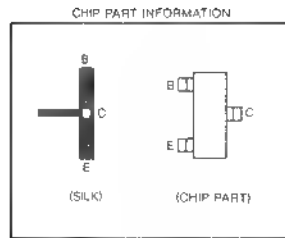
| FRONT INTERFACE |     |            |     |                    |     |           |     |
|-----------------|-----|------------|-----|--------------------|-----|-----------|-----|
| FOIL SIDE       |     | TRANSISTOR |     | INTEGRATED CIRCUIT |     | CONNECTOR |     |
| Q1              | C-8 | Q106       | E-8 | IC8                | E-7 | VR103     | E-9 |
| Q2              | G-4 | Q107       | F-8 | IC9                | G-7 | VR104     | F-9 |
| Q3              | G-3 | Q108       | F-8 | IC101              | D-8 |           |     |
| Q4              | G-3 |            |     | IC102              | F-8 | CN130     | C-7 |
| Q101            | D-8 |            |     | IC104              | G-7 | CN131     | C-5 |
| Q102            | D-8 |            |     | IC105              | G-8 | CN132     | G-6 |
| Q103            | E-8 |            |     |                    |     | CN133     | E-5 |
| Q104            | E-8 |            |     |                    |     | CN134     | E-6 |
| Q105            | E-8 |            |     |                    |     | CN135     | C-8 |
|                 |     |            |     |                    |     | CN136     | C-6 |
|                 |     |            |     |                    |     | CN137     | D-7 |

ADDRESS INFORMATION

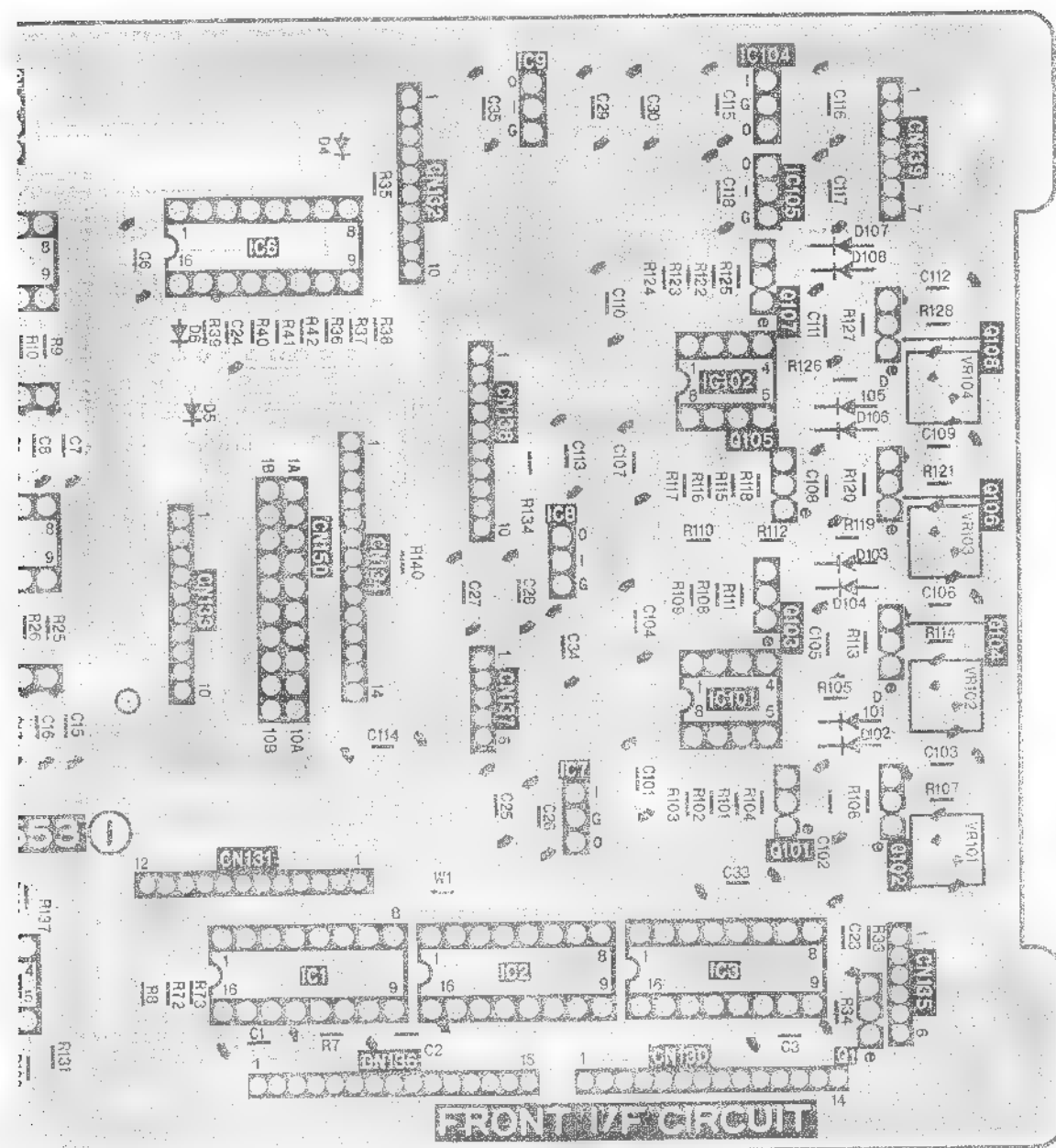
(FOIL SIDE)

## FRONT INTERFACE P.C.BOARD

| MODEL<br>TYPE | AU-665         | AU-65     | AU-63     | AU-62     |
|---------------|----------------|-----------|-----------|-----------|
| NTSC          | See Front Page | VEP80553A | VEP80553C | VEP80553B |
| PAL           | —              | VEP80631A | VEP80631B | VEP80631C |

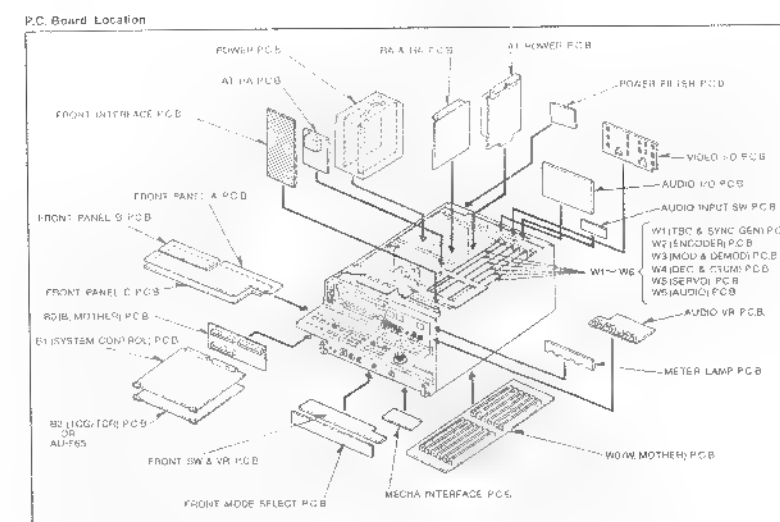


|      |           |           |           |
|------|-----------|-----------|-----------|
| 65   | AU-65     | AU-63     | AU-62     |
| Page | VEP80553A | VEP80553C | VEP80553B |
| ..   | VEP80631A | VEP80631B | VEP80631C |



(FOIL SIDE)

| FRONT INTERFACE |     |           |     |       |     |
|-----------------|-----|-----------|-----|-------|-----|
| IC8             | E-7 | VR11      | C-1 | CN133 | E-5 |
| IC9             | G-7 | VR12      | C-2 | CN134 | E-6 |
| IC101           | D-8 | VR13      | C-2 | CN135 | C-8 |
| IC102           | F-8 | VR101     | D-9 | CN136 | C-6 |
| IC103           | C-4 | VR102     | D-9 | CN137 | D-6 |
| IC104           | G-8 | VR103     | E-9 | CN138 | E-6 |
| IC105           | G-8 | VR104     | F-9 | CN139 | G-8 |
| ADJUSTMENT      |     | CONNECTOR |     | CN150 | E-6 |
| VR8             | D-1 | CN130     | C-7 |       |     |
| VR9             | D-2 | CN131     | C-5 |       |     |
| VR10            | C-1 | CN132     | G-6 |       |     |



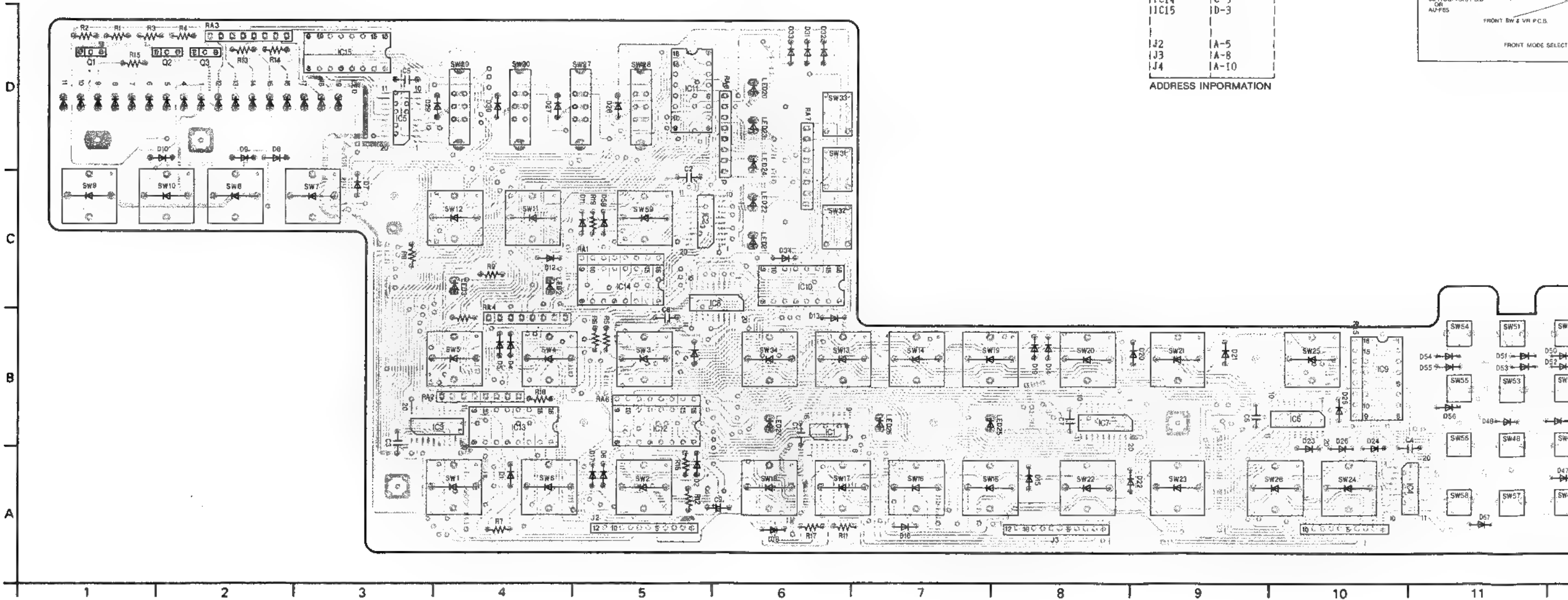
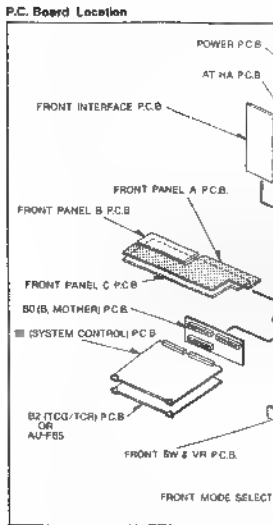
FRONT PANEL A P.C.BOARD

| MODEL | AU-665    | AU-65         | AU-63 | AU-62 |
|-------|-----------|---------------|-------|-------|
| TYPE  | VEP66052C | See Next Page |       |       |
| NTSC  |           |               |       |       |
| PAL   |           |               |       |       |

FRONT PANEL(A) P.C.BOARD

|      |      |
|------|------|
| Q1   | D-1  |
| Q2   | D-2  |
| Q3   | D-2  |
| IC1  | B-6  |
| IC2  | C-5  |
| IC3  | B-4  |
| IC4  | A-11 |
| IC5  | D-3  |
| IC6  | B-10 |
| IC7  | B-8  |
| IC8  | C-6  |
| IC9  | B-10 |
| IC10 | C-6  |
| IC11 | D-5  |
| IC12 | B-5  |
| IC13 | B-4  |
| IC14 | C-5  |
| IC15 | D-3  |
| J2   | A-5  |
| J3   | A-8  |
| J4   | A-10 |

ADDRESS INFORMATION

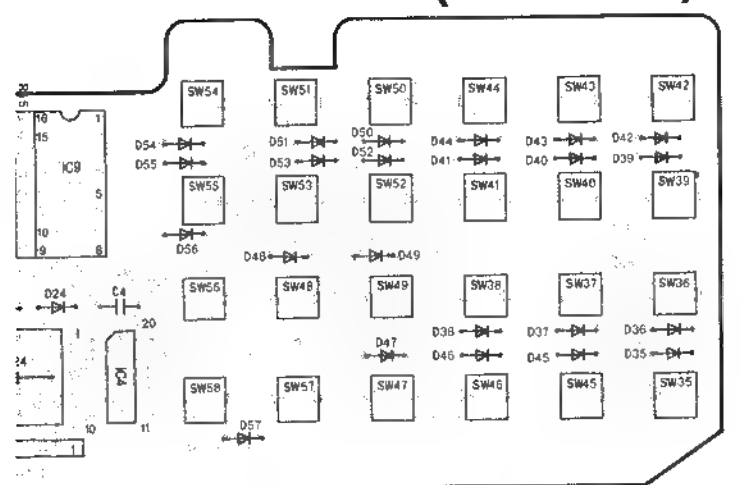




**P.C. Board Location**

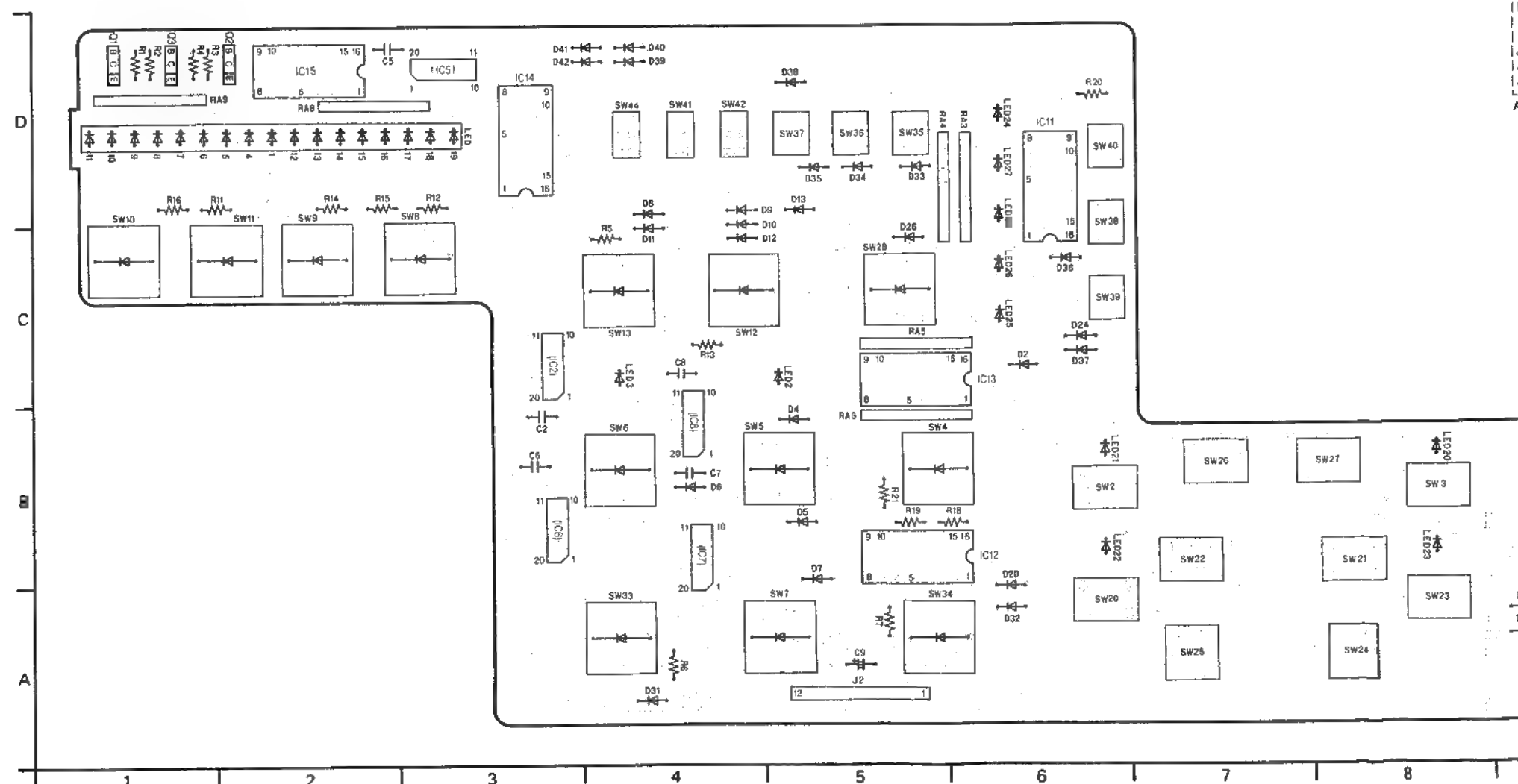
Diagram illustrating the exploded view of a P.C. Board, showing the locations of various components relative to the main board:

- POWER P.C.B.
- RA & HA P.C.B.
- AT POWER P.C.B.
- POWER FILTER P.C.B.
- VIDEO I/O P.C.B.
- AUDIO I/O P.C.B.
- AUDIO INPUT SW P.C.B.
- W1 (TBC & SYNC GEN) P.C.B.
- W2 (ENCODER) P.C.B.
- W3 (MOD & DEMOD) P.C.B.
- W4 (DEC & CTCM) P.C.B.
- W5 (SERVO) P.C.B.
- W6 (AUDIO) P.C.B.
- AUDIO VR P.C.B.
- METER LAMP P.C.B.
- W0 (N. MOTHER) P.C.B.
- MECHA INTERFACE P.C.B.
- FRONT MODE SELECT P.C.B.
- FRONT SW & VR P.C.B.
- B2 (TCG/TCR) P.C.B. OR AU-F85
- B1 (SYSTEM CONTROL) P.C.B.
- B0 (R. MOTHER) P.C.B.
- FRONT PANEL C P.C.B.
- FRONT PANEL B P.C.B.
- FRONT PANEL A P.C.B.
- FRONT INTERFACE P.C.B.
- AT HA P.C.B.



|               |                |           |               |       |
|---------------|----------------|-----------|---------------|-------|
| MODEL<br>TYPE | AU-665         | AU-65     | AU-63         | AU-62 |
| NTSC          | See Front Page | VEP86050C | See Next Page |       |
| PAL           | —              | VEP86050D |               |       |

### FRONT PANEL A P.C.BOARD



# PANEL A P.C.BOARD

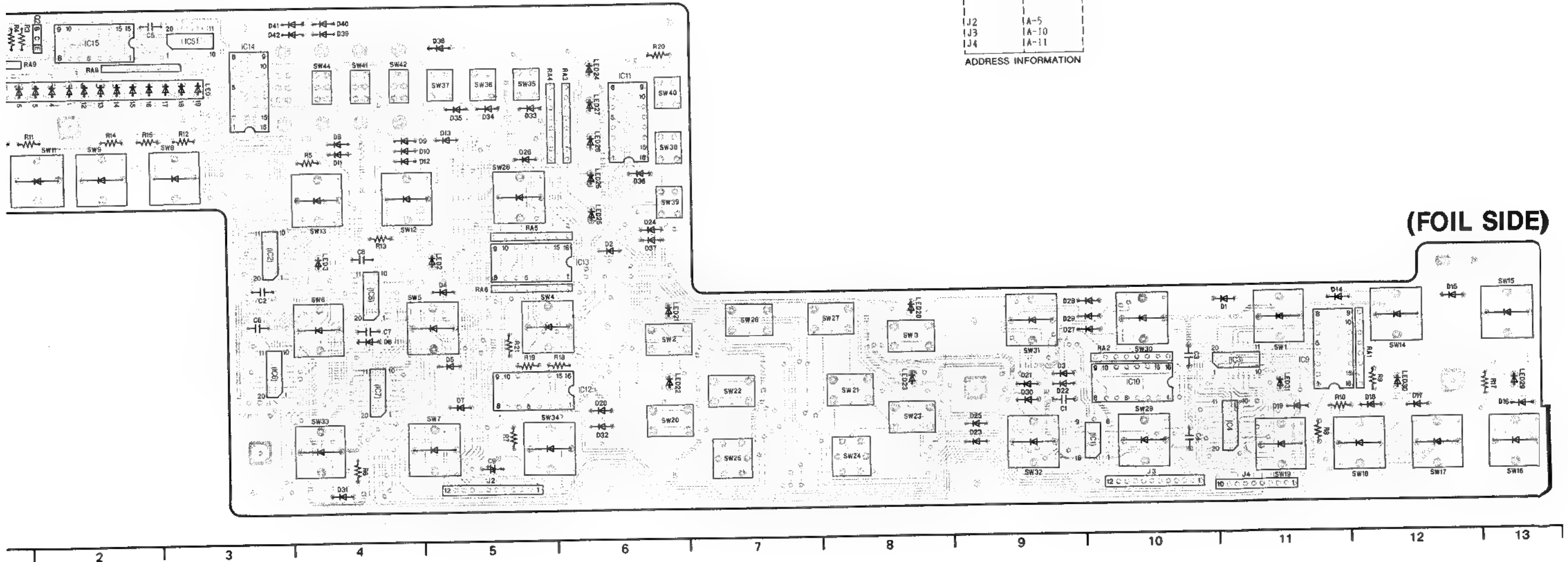
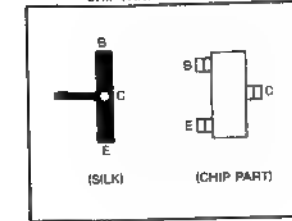
| MODEL | AU-665         | AU-65     | AU-63         | AU-62 |
|-------|----------------|-----------|---------------|-------|
| TYPE  | See Front Page | VEP86050C | See Next Page |       |
| NTSC  | See Front Page | VEP86050C |               |       |
| PAL   | See Front Page | VEP86050D |               |       |

## FRONT PANEL(A) P.C.BOARD

|      |      |
|------|------|
| Q1   | D-1  |
| Q2   | D-2  |
| Q3   | D-1  |
| IC1  | A-10 |
| IC2  | C-3  |
| IC3  | B-11 |
| IC4  | A-11 |
| IC5  | D-3  |
| IC6  | B-3  |
| IC7  | B-4  |
| IC8  | B-4  |
| IC9  | B-11 |
| IC10 | B-10 |
| IC11 | D-6  |
| IC12 | B-5  |
| IC13 | C-5  |
| IC14 | D-3  |
| IC15 | D-2  |
| J2   | A-5  |
| J3   | A-10 |
| J4   | A-11 |

## ADDRESS INFORMATION

## CHIP PART INFORMATION



## REVERSE SIDE

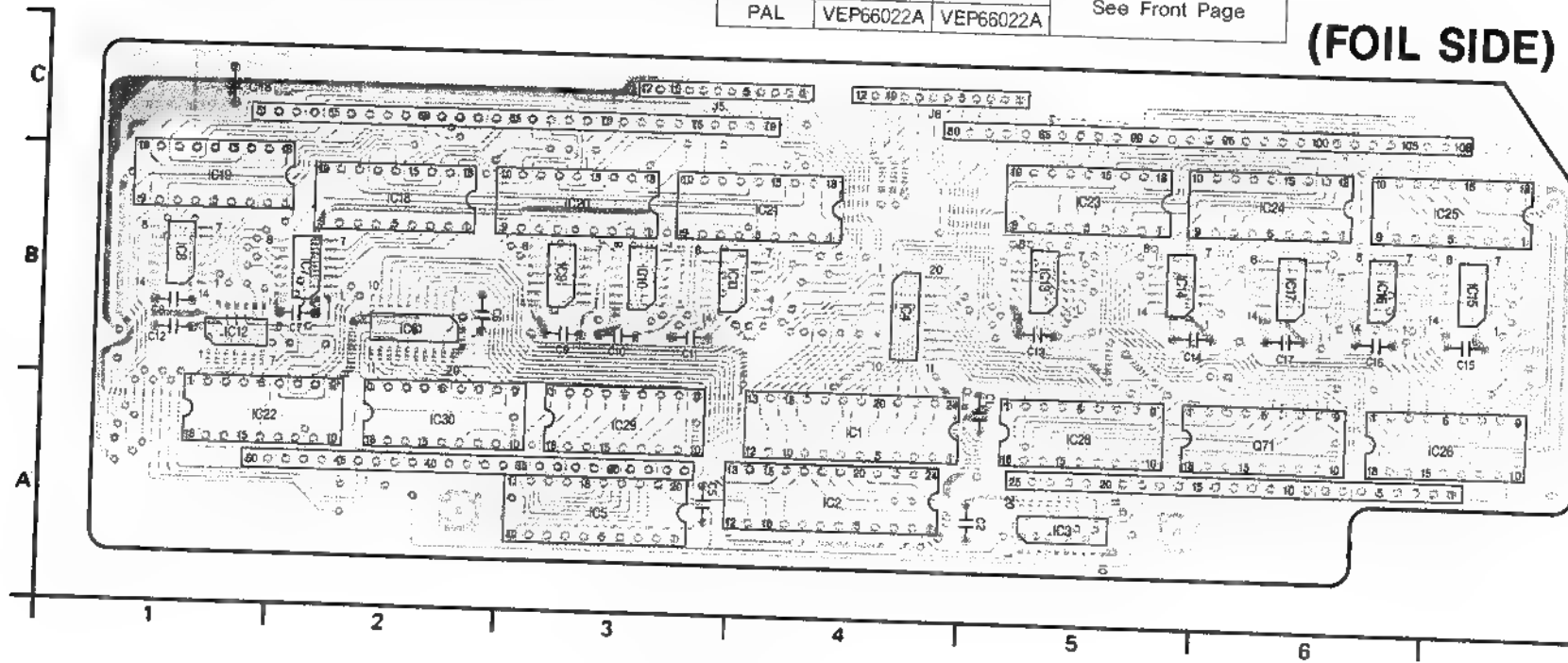
FRONT PANEL A P.C.BOARD  
FRONT PANEL B P.C.BOARD



# FRONT PANEL B P.C.BOARD

| MODEL | AU-665    | AU-65     | AU-63          | AU-62 |
|-------|-----------|-----------|----------------|-------|
| TYPE  | VEP66022A | VEP66022A |                |       |
| NTSC  | VEP66022A | VEP66022A | See Front Page |       |
| PAL   | VEP66022A | VEP66022A |                |       |

(FOIL SIDE)

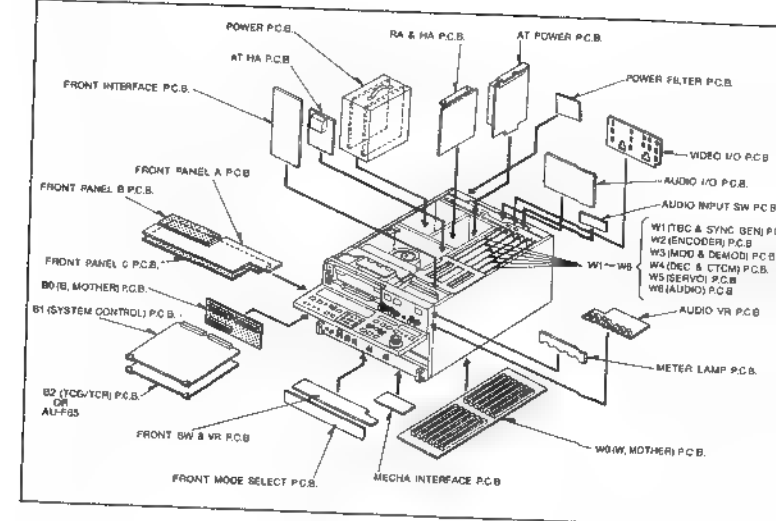


FRONT PANEL (B) P.C.BOARD

|      |      |
|------|------|
| IC1  | 1A-4 |
| IC2  | 1A-4 |
| IC3  | 1A-5 |
| IC4  | 1B-4 |
| IC5  | 1A-3 |
| IC6  | 1B-2 |
| IC7  | 1B-2 |
| IC8  | 1B-1 |
| IC9  | 1B-3 |
| IC10 | 1B-3 |
| IC11 | 1B-3 |
| IC12 | 1B-1 |
| IC13 | 1B-5 |
| IC14 | 1B-5 |
| IC15 | 1B-7 |
| IC16 | 1B-6 |
| IC17 | 1B-6 |
| IC18 | 1B-2 |
| IC19 | 1B-1 |
| IC20 | 1B-3 |
| IC21 | 1B-4 |
| IC22 | 1A-1 |
| IC23 | 1B-5 |
| IC24 | 1B-6 |
| IC25 | 1B-7 |
| IC26 | 1A-7 |
| IC28 | 1A-5 |
| IC29 | 1A-3 |
| IC30 | 1A-2 |
| IC31 | 1A-6 |
| IC32 | 1C-3 |
| IC33 | 1C-4 |

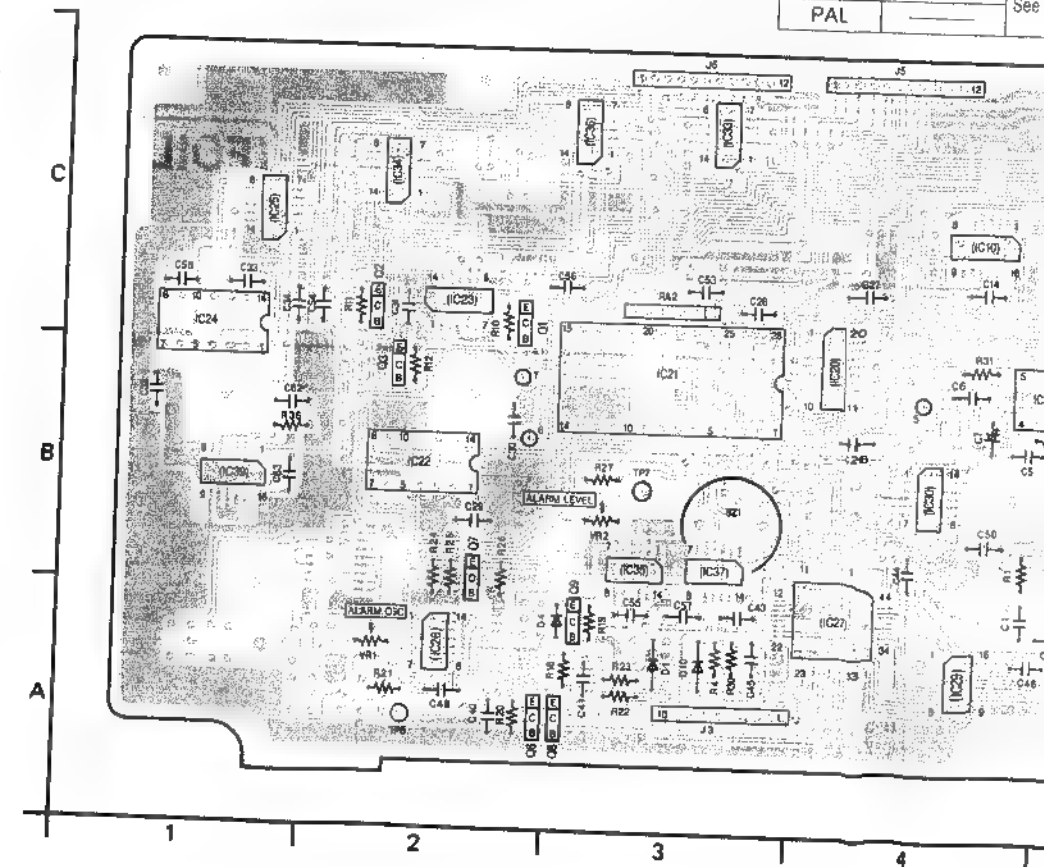
ADDRESS INFORMATION

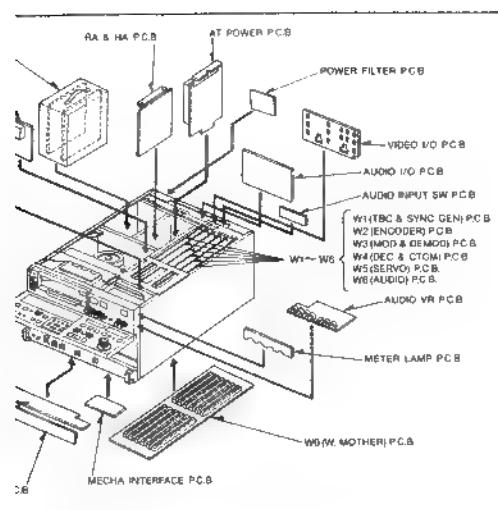
P.C. Board Location



# FRONT PANEL C P.C.BOARD

| MODEL | AU-665    | AU-65 | AU-63 | AU-62 |
|-------|-----------|-------|-------|-------|
| TYPE  | VEP66053E |       |       |       |
| NTSC  | VEP66053E |       |       |       |
| PAL   |           |       |       |       |



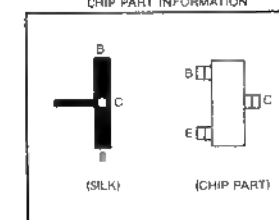


FRONT PANEL(C) P.C BOARD <VEP66053>

|      |     |      |      |      |     |
|------|-----|------|------|------|-----|
| IC1  | B-5 | IC12 | F-7  | IC37 | F-3 |
| IC2  | F-5 | IC13 | G-8  | IC38 | G-9 |
| IC3  | F-5 | IC14 | G-8  | IC39 | F-1 |
| IC4  | F-6 | IC15 | G-7  |      |     |
| IC5  | F-6 | IC16 | G-7  |      |     |
| IC6  | F-6 | IC17 | G-6  | TP2  | G-9 |
| IC7  | F-6 | IC18 | G-6  | TP3  | G-9 |
| IC8  | F-6 | IC19 | G-5  | TP4  | B-8 |
| IC9  | G-5 | IC20 | F-4  | TP6  | F-2 |
| IC10 | G-4 | IC21 | F-3  | TP7  | F-3 |
| IC11 | B-7 | IC22 | F-2  | TPG1 | F-8 |
|      |     | IC23 | F-2  |      |     |
|      |     | IC24 | F-1  |      |     |
|      |     | IC25 | G-1  |      |     |
|      |     | IC26 | B-2  | VR1  | B-2 |
|      |     | IC27 | B-4  | VR2  | F-3 |
|      |     | IC28 | B-7  |      |     |
|      |     | IC29 | B-4  |      |     |
|      |     | IC30 | F-4  |      |     |
|      |     | IC31 | G-10 |      |     |
|      |     | IC32 | B-5  |      |     |
|      |     | IC33 | G-3  |      |     |
|      |     | IC34 | G-2  |      |     |
|      |     | IC35 | B-3  |      |     |
|      |     | IC36 | G-3  |      |     |

ADDRESS INFORMATION

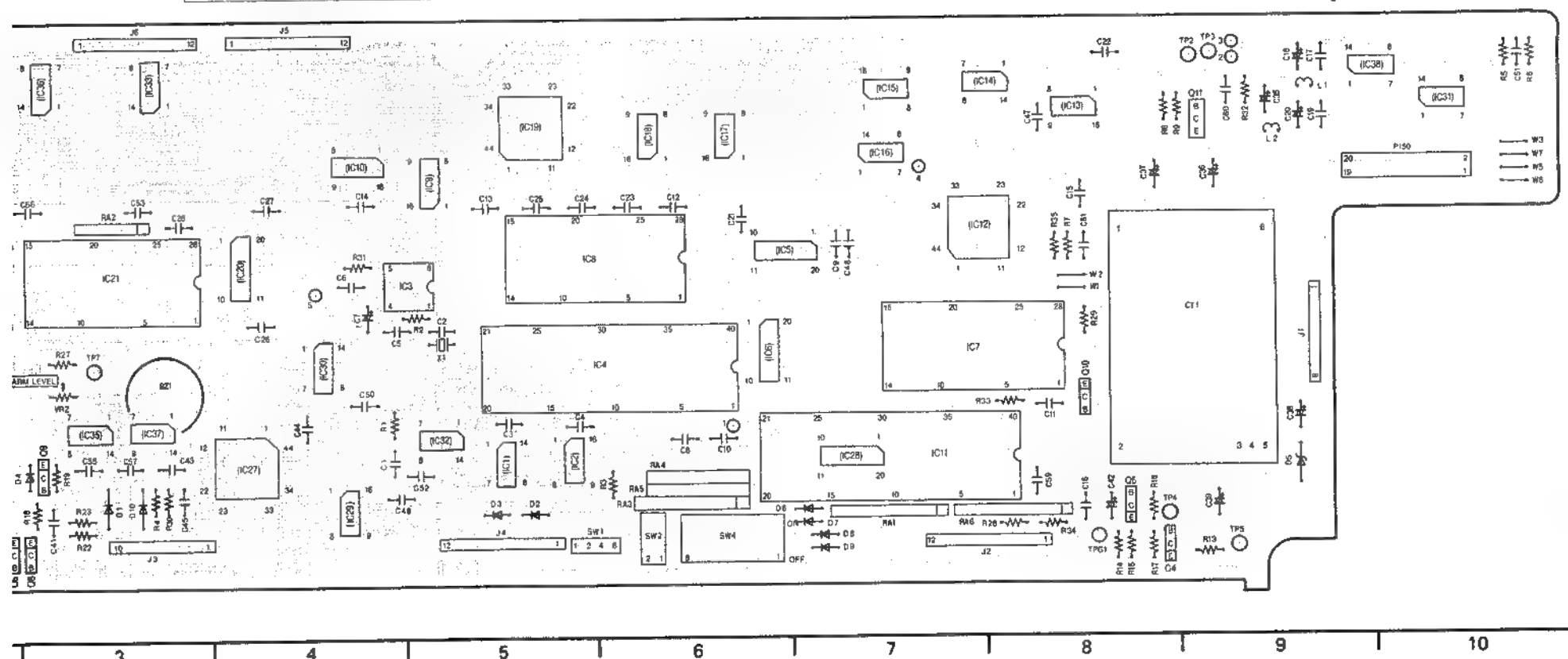
CHIP PART INFORMATION



## C.BOARD

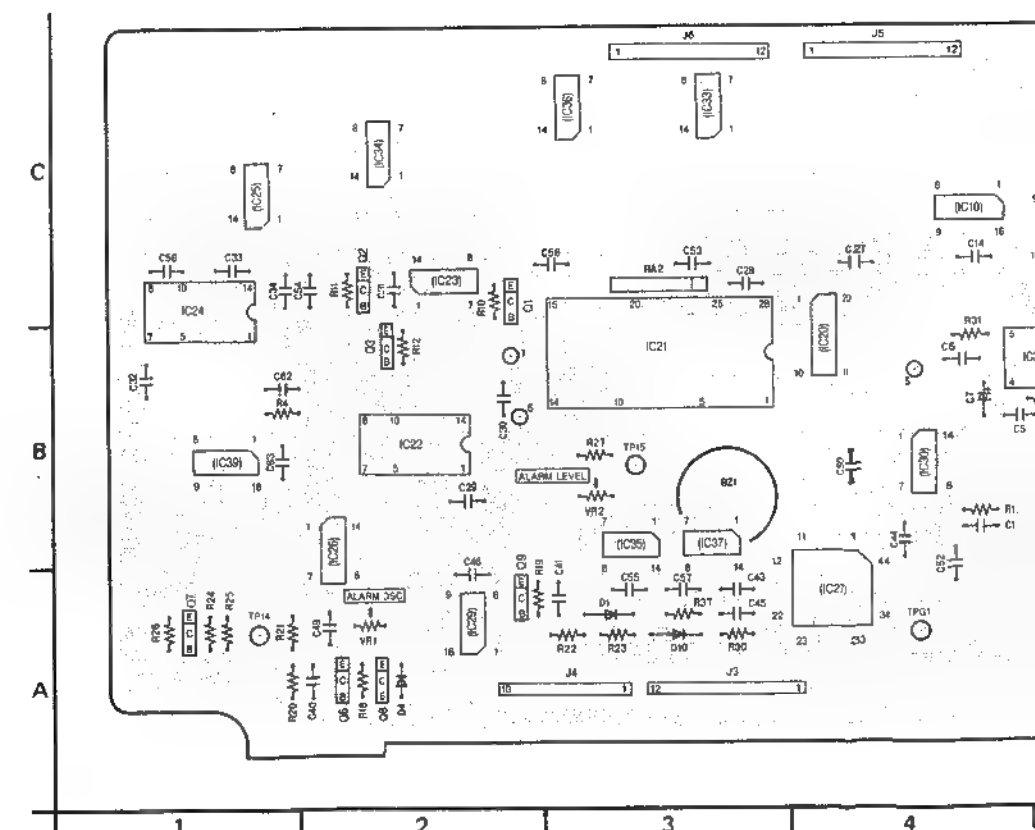
| MODEL | AU-665    | AU-65         | AU-63    | AU-62 |
|-------|-----------|---------------|----------|-------|
| TYPE  | VEP66053E | See Next Page | Not Used |       |
| NTSC  |           |               |          |       |
| PAL   |           |               |          |       |

(FOIL SIDE)



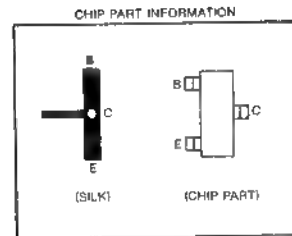
## FRONT PANEL C P.C BOARD

| MODEL | AU-665    | AU-65          |
|-------|-----------|----------------|
| TYPE  | VEP66053E | See Front Page |
| NTSC  |           |                |
| PAL   |           |                |



|       |       |
|-------|-------|
| IC37  | IR-3  |
| IC38  | IG-9  |
| IC39  | IF-1  |
| TP2   | IG-9  |
| TP3   | IG-9  |
| TP4   | IE-8  |
| TP6   | IE-2  |
| TP7   | IF-3  |
| TPG1  | IS-8  |
| VR1   | IE-2  |
| VR2   | IF-3  |
| IP150 | IG-10 |
| J1    | IF-9  |
| J2    | IE-8  |
| J3    | IE-3  |
| J4    | IE-5  |
| J5    | IG-4  |
| J6    | IG-3  |

ADDRESS INFORMATION



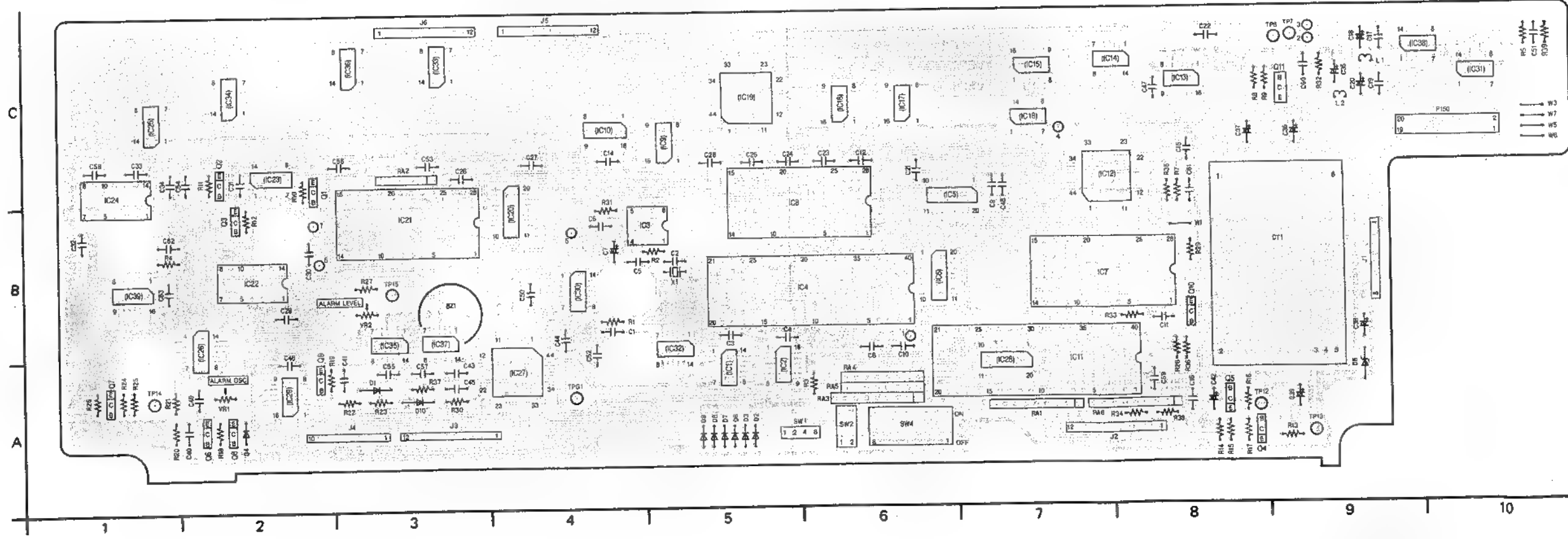
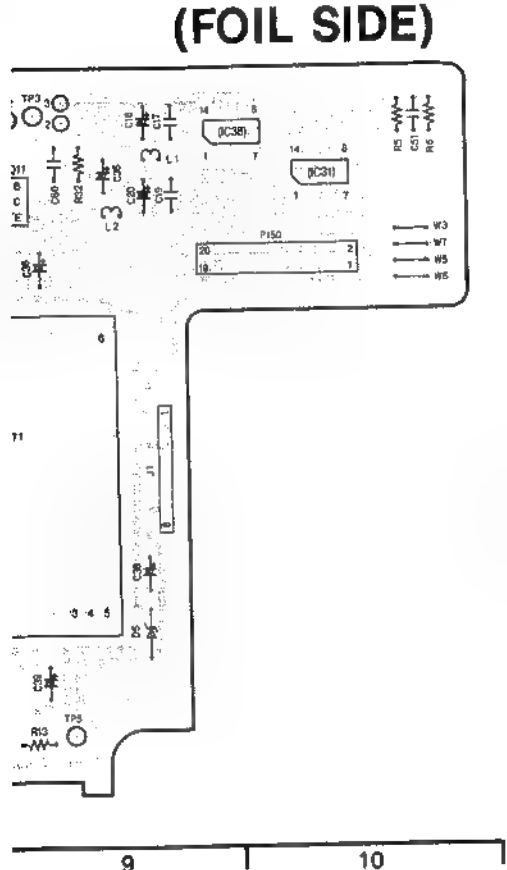
| FRONT PANEL(C) P.C.BOARD |      |      |       | <VEP86048A> |      |
|--------------------------|------|------|-------|-------------|------|
| Q1                       | IC-2 | IC12 | IC-7  | IC37        | IB-3 |
| Q2                       | IC-2 | IC13 | IC-8  | IC38        | IC-9 |
| Q3                       | IB-2 | IC14 | IC-8  | IC39        | IB-1 |
| Q4                       | IA-8 | IC15 | IC-7  |             |      |
| Q5                       | IA-8 | IC16 | IC-7  | TP6         | ID-9 |
| Q6                       | IA-2 | IC17 | IC-6  | TP7         | ID-9 |
| Q7                       | IA-1 | IC18 | IC-6  | TP12        | IA-9 |
| Q8                       | IA-2 | IC19 | IC-5  | TP13        | IA-9 |
| Q9                       | IA-2 | IC20 | IB-4  | TP14        | IA-1 |
| Q10                      | IB-8 | IC21 | IB-3  | TP15        | IB-3 |
| Q11                      | IC-9 | IC22 | IB-2  |             |      |
|                          |      | IC23 | IC-2  |             |      |
|                          |      | IC24 | IC-1  |             |      |
|                          |      | IC25 | IC-1  | TPG1        | IA-4 |
|                          |      | IC26 | IB-2  |             |      |
| IC1                      | IA-5 | IC27 | IA-4  | VR1         | IA-2 |
| IC2                      | IA-5 | IC28 | IA-7  | VR2         | IB-3 |
| IC3                      | IB-5 | IC29 | IA-2  |             |      |
| IC4                      | IB-6 | IC30 | IB-4  | J1          | IB-9 |
| IC5                      | IC-7 | IC31 | IC-10 | J2          | IA-8 |
| IC6                      | IB-6 | IC32 | IB-5  | J3          | IA-3 |
| IC7                      | IB-8 | IC33 | IC-3  | J4          | IA-3 |
| IC8                      | IB-6 | IC34 | IC-2  | J5          | ID-4 |
| IC9                      | IC-5 | IC35 | IB-3  | J6          | ID-3 |
| IC10                     | IC-4 | IC36 | IC-3  |             |      |
| IC11                     | IA-7 |      |       |             |      |

ADDRESS INFORMATION

| MODEL | AU-665         | AU-65     | AU-63    | AU-62 |
|-------|----------------|-----------|----------|-------|
| TYPE  |                |           |          |       |
| NTSC  | See Front Page | VEP86048F | Not Used |       |
| PAL   |                | VEP86048G |          |       |

FRONT PANEL C P.C.BOARD

(FOIL SIDE)

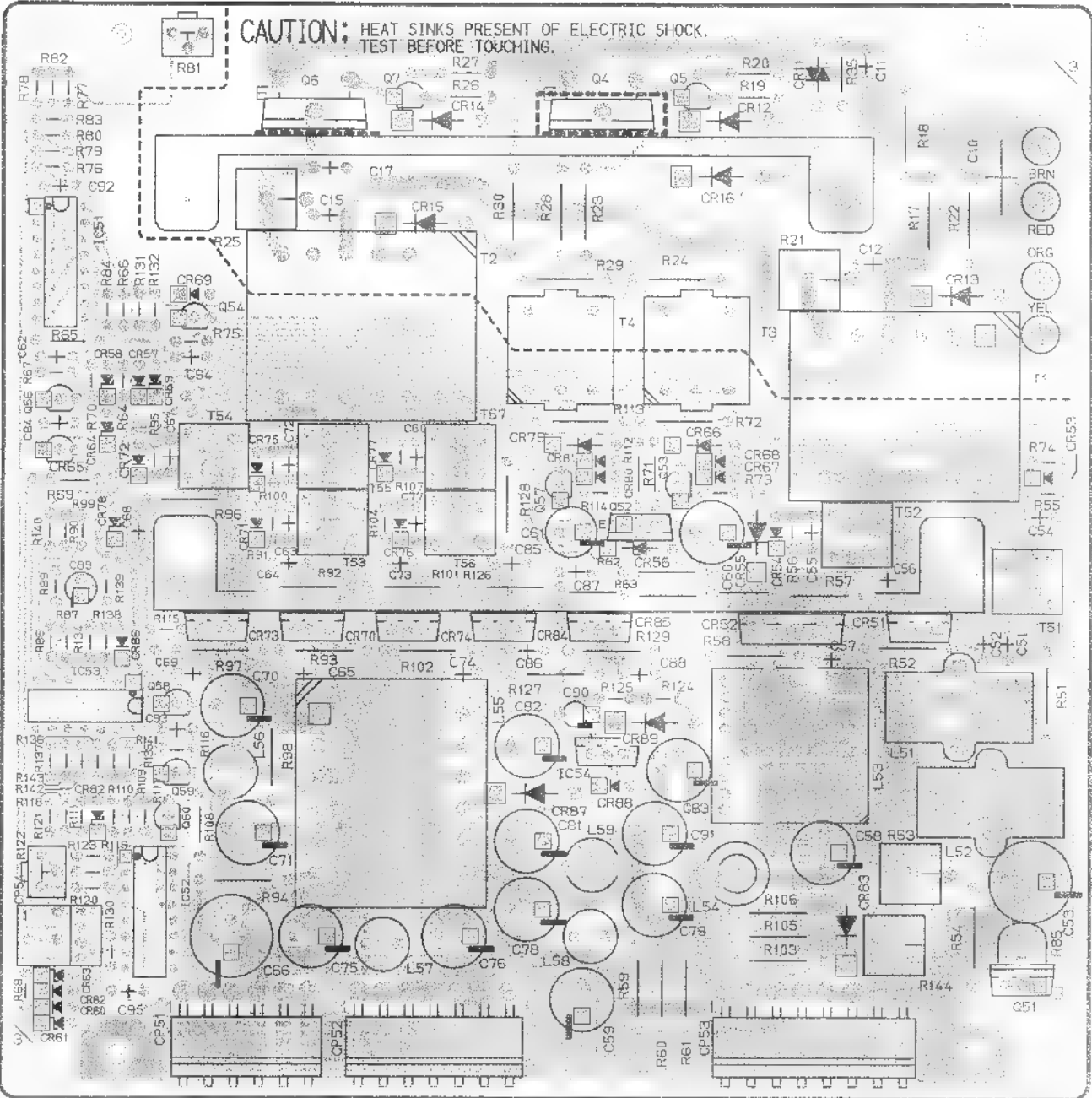


REVERSE SIDE  
FRONT SW VR P.C.BOARD  
MECHA INTERFACE P.C.BOARD

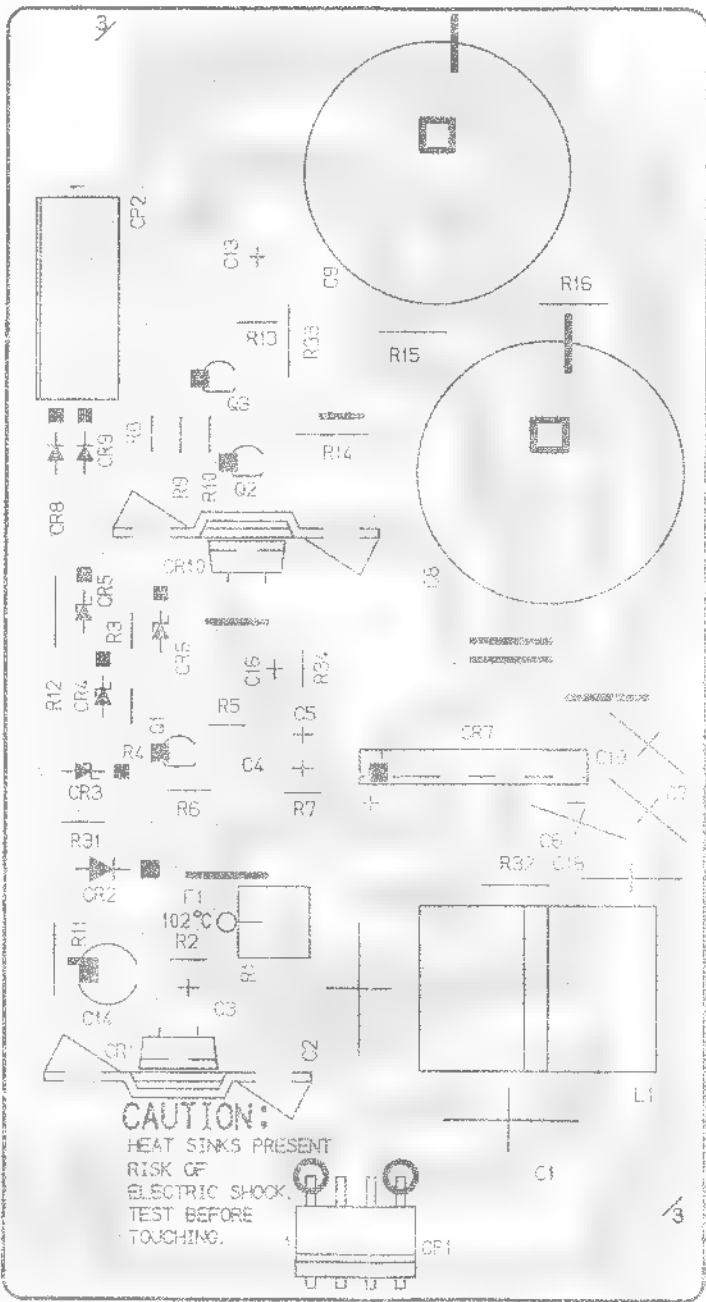
POWER SUPPLY A P.C.BOARD

| MODEL | AU-665 | AU-65   | AU-63   | AU-62   |
|-------|--------|---------|---------|---------|
| TYPE  | NTSC   | VYK3004 | VYK3004 | VYK3004 |
|       | PAL    | VYK3637 | VYK3637 | VYK3637 |

POWER SUPPLY B P.C.BOARD



(COMPONENT SIDE)



(COMPONENT SIDE)

| POWER (VYK 3004) |     |       |     |
|------------------|-----|-------|-----|
| IC               | E-1 | DIODE | D58 |
| IC51             | B-2 | D1    | B-8 |
| IC52             | C-1 | D2    | C-8 |
| IC53             | C-4 | D3    | C-8 |
| IC54             |     | D4    | D-8 |
|                  |     | D5    | D-8 |
|                  |     | D6    | D-8 |
|                  |     | D7    | C-9 |
|                  |     | D8    | E-8 |
|                  |     | D9    | E-8 |
|                  |     | D10   | D-9 |
|                  |     | D11   | F-5 |
|                  |     | D12   | F-4 |
|                  |     | D13   | E-5 |
|                  |     | D14   | F-3 |
|                  |     | D15   | E-3 |
|                  |     | D16   | F-4 |
|                  |     | D17   | C-5 |
|                  |     | D18   | C-5 |
|                  |     | D19   | D-6 |
|                  |     | D20   | D-5 |
|                  |     | D21   | D-4 |
|                  |     | D22   | D-4 |
|                  |     | D23   | E-1 |

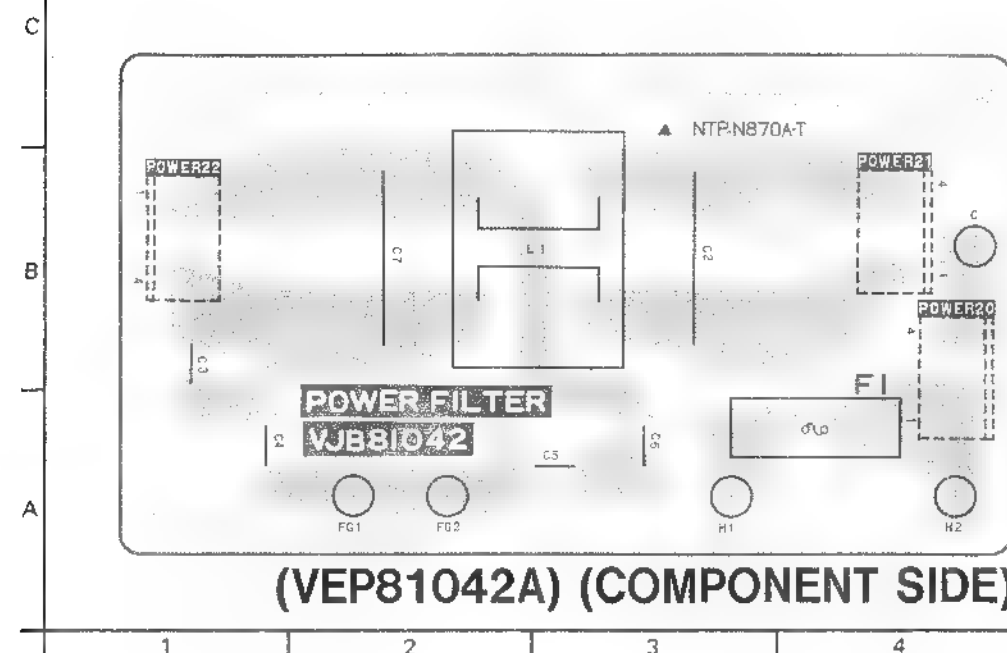
OARD



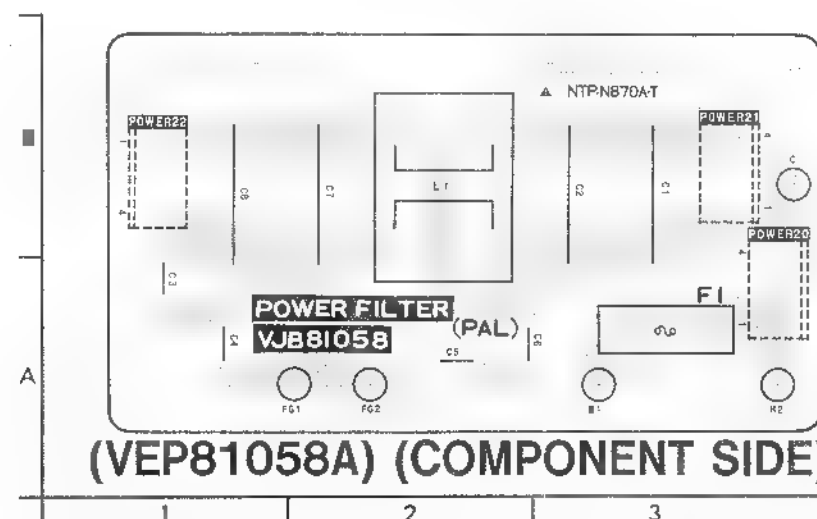
SIDE)

# POWER FILTER P.C.BOARD

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP81042A | VEP81042A | VEP81042A | VEP81042A |
| NTSC  | VEP81058A | VEP81058A | VEP81058A | VEP81058A |
| PAL   |           |           |           |           |

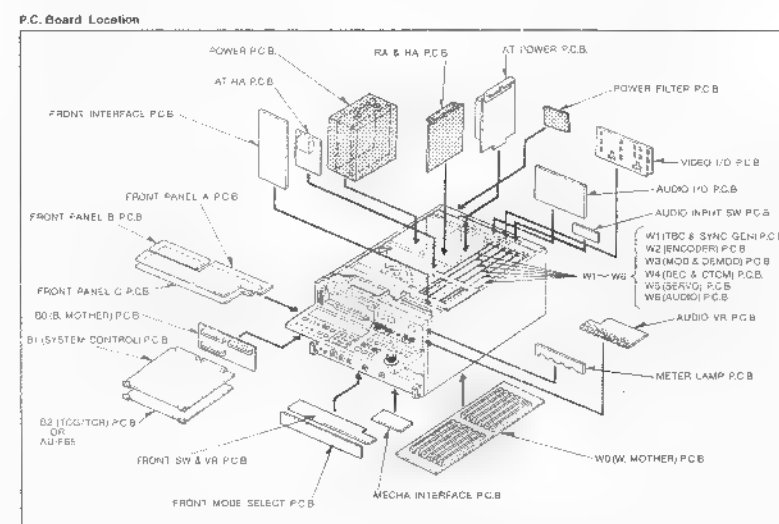


(VEP81042A) (COMPONENT SIDE)



(VEP81058A) (COMPONENT SIDE)

| POWER (VYK 3004) |     |       |     |   |   |  |   |
|------------------|-----|-------|-----|---|---|--|---|
| IC               |     | DIODE |     | D58<br>D59<br>D60<br>D61<br>D62<br>D63<br>D64<br>D65<br>D66<br>D67<br>D68<br>D69<br>D70<br>D71<br>D72<br>D73<br>D74<br>D75<br>D76<br>D77<br>D78<br>D79<br>D80<br>D81<br>D82 | E-1<br>E-2<br>B-1<br>B-1<br>B-1<br>D-1<br>D-1<br>D-4<br>D-4<br>E-2<br>C-2<br>D-2<br>C-2<br>C-3<br>D-2<br>D-3<br>D-3<br>D-1<br>D-4<br>D-4<br>C-1 | D83<br>D84<br>D85<br>D86<br>D87<br>D88<br>D89<br>D90 | B-5<br>C-3<br>C-4<br>C-1<br>C-3<br>C-4<br>C-4 |
| IC51             | E-1 | D1    | B-8 |   | CONNECTOR<br>P1<br>P2<br>P51<br>P52<br>P53<br>P54   | A-9<br>E-8<br>A-2<br>A-3<br>A-5                      |   |
| IC52             | B-2 | D2    | C-8 |   |   |  |   |
| IC53             | C-1 | D3    | C-8 |   |   |  |   |
| IC54             | C-4 | D4    | D-8 |   |   |  |   |
|                  |     | D5    | D-8 |   |   |  |   |
|                  |     | D6    | D-8 |   |   |  |   |
|                  |     | D7    | C-9 |   |   |  |   |
|                  |     | D8    | E-8 |   |   |  |   |
|                  |     | D9    | E-8 |   |   |  |   |
|                  |     | D10   | D-9 |   |   |  |   |
|                  |     | D11   | F-5 |   |   |  |   |
|                  |     | D12   | F-4 |   |   |  |   |
|                  |     | D13   | E-5 |   |   |  |   |
|                  |     | D14   | F-3 |   |   |  |   |
|                  |     | D15   | E-3 |   |   |  |   |
|                  |     | D16   | F-4 |   |   |  |   |
|                  |     | D51   | C-5 |   |   |  |   |
|                  |     | D52   | C-5 |   |   |  |   |
|                  |     | D53   | D-6 |   |   |  |   |
|                  |     | D54   | D-5 |   |   |  |   |
|                  |     | D55   | D-4 |   |   |  |   |
|                  |     | D56   | D-4 |   |   |  |   |
|                  |     | D57   | F-1 |   |   |  |   |
|                  |     |       | D82 |   |   |  |   |
| TRANSISTOR       |     |       |     | VARIABLE RESISTOR<br>VRB1<br>VR122  | F-2<br>B-1  |  |   |
| Q1               | C-8 |       |     |   |   |  |   |
| Q2               | E-8 |       |     |   |   |  |   |
| Q3               | E-8 |       |     |   |   |  |   |
| Q4               | F-4 |       |     |   |   |  |   |
| Q5               | F-4 |       |     |   |   |  |   |
| Q6               | F-2 |       |     |   |   |  |   |
| Q7               | F-3 |       |     |   |   |  |   |
| Q51              | B-6 |       |     |   |   |  |   |
| Q52              | D-4 |       |     |   |   |  |   |
| Q53              | D-4 |       |     |   |   |  |   |
| Q54              | E-2 |       |     |   |   |  |   |
| Q56              | E-1 |       |     |   |   |  |   |
| Q57              | D-4 |       |     |   |   |  |   |
| Q58              | C-2 |       |     |   |   |  |   |
| Q59              | C-2 |       |     |   |   |  |   |
| Q60              | B-2 |       |     |   |   |  |   |

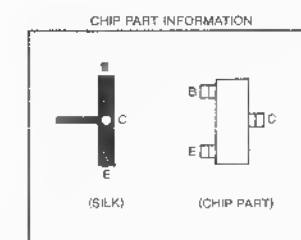


# RA.HA P.C.BOARD

| MODEL | AU-665    | AU-65     | AU-63     | AU-62    |
|-------|-----------|-----------|-----------|----------|
| TYPE  | VEP85015A | VEP85015A | VEP85015C | VEP85015 |
| NTSC  | VEP85015D | VEP85015D | VEP85015F | VEP85015 |
| PAL   |           |           |           |          |



(FOIL SIDE)



| FOIL SIDE |      |      |      |      |      |      |      |      |      |
|-----------|------|------|------|------|------|------|------|------|------|
| Q1        | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  |
| E-1       | E-1  | E-2  | E-2  | E-2  | E-3  | E-4  | E-5  | A-2  | A-2  |
| Q11       | Q12  | Q13  | Q14  | Q15  | Q16  | Q201 | Q202 | Q203 | Q204 |
| B-2       | B-2  | B-5  | B-5  | B-5  | A-5  | B-3  | B-3  | B-3  | B-3  |
| Q205      | Q206 | Q207 | Q208 | Q209 | Q210 | Q211 | Q212 | Q213 | Q214 |
| B-2       | B-3  | B-2  | B-3  | B-4  | B-4  | B-4  | B-4  | B-4  | B-4  |
| Q216      | Q217 | Q218 | Q219 | Q220 | Q221 | Q222 | Q223 | Q224 | Q225 |
| B-4       | D-1  | D-1  | C-1  | C-2  | C-2  | D-3  | D-3  | D-4  | D-4  |

ADDRESS INFORMATION

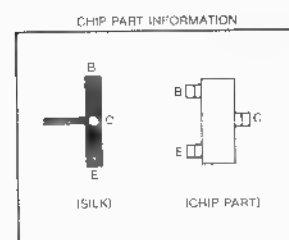
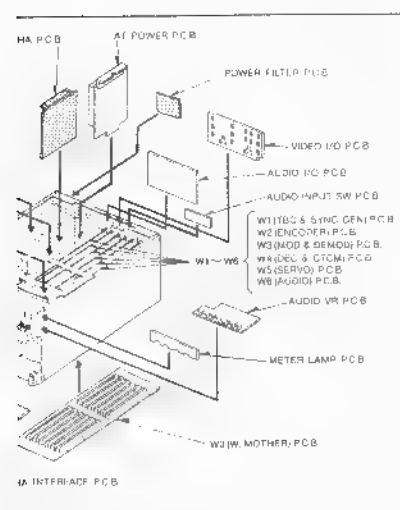
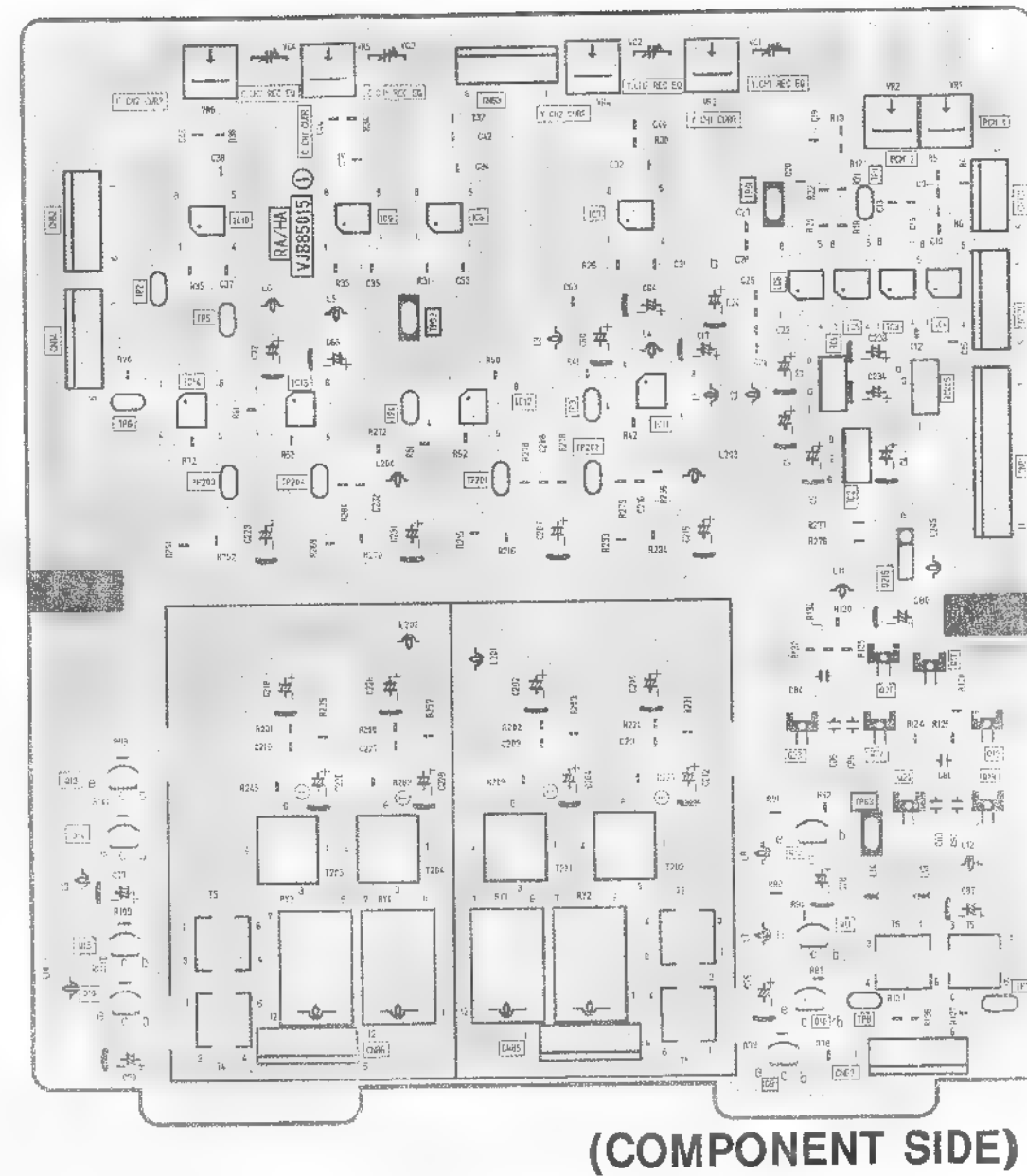
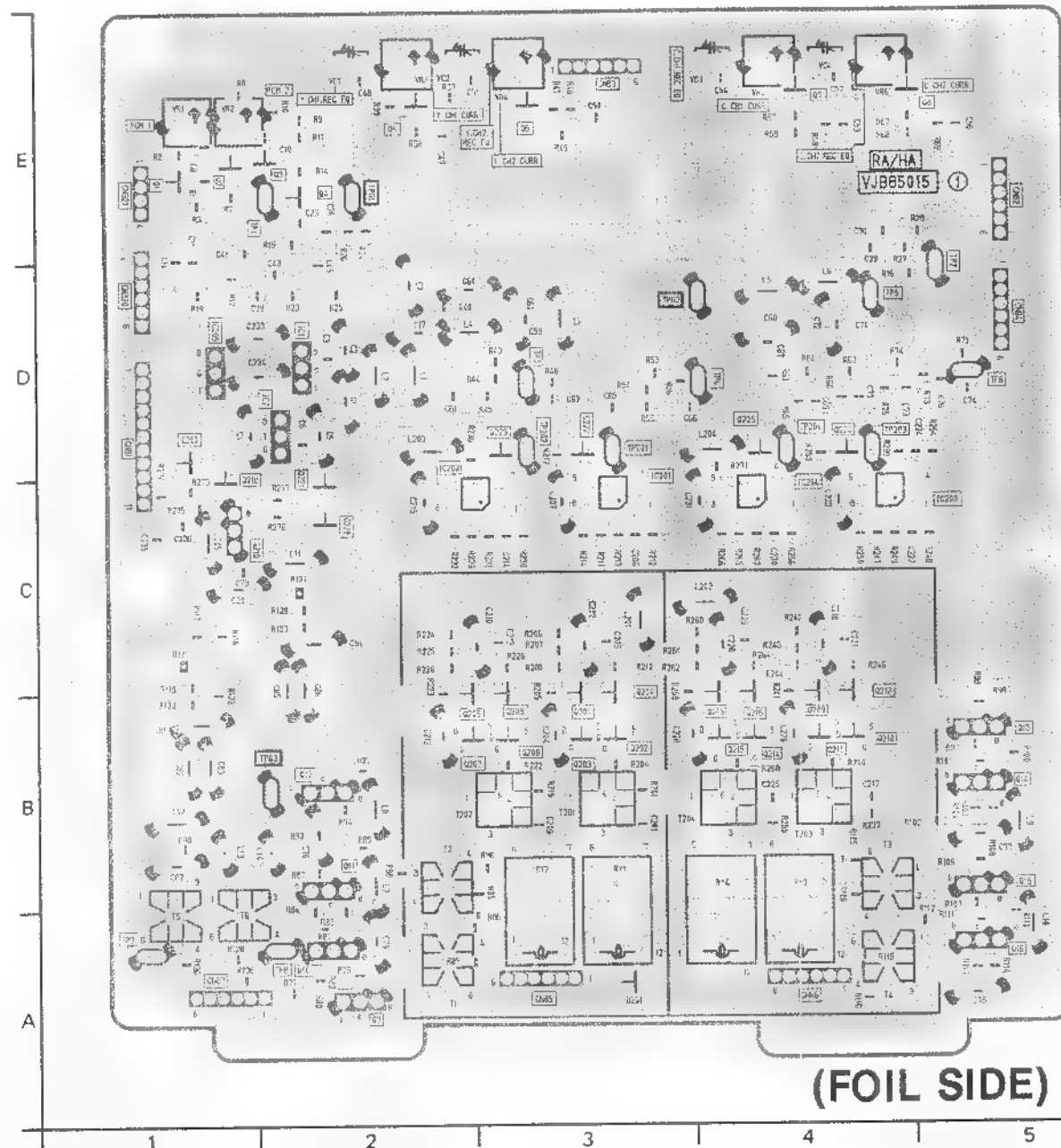
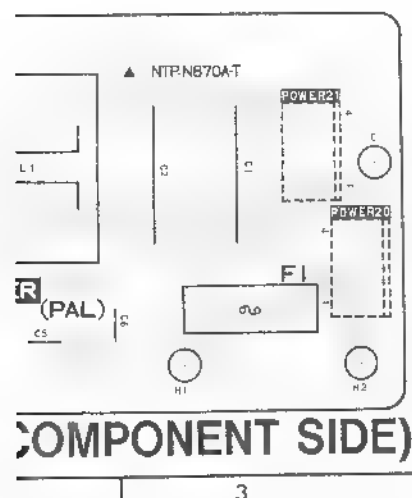
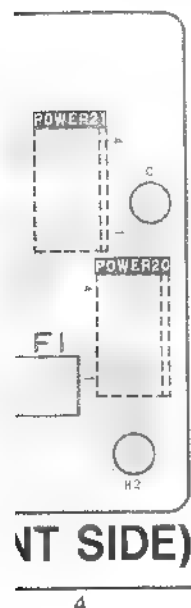


| AU-665    | AU-65     | AU-63     | AU-62     |
|-----------|-----------|-----------|-----------|
| VEP81042A | VEP81042A | VEP81042A | VEP81042A |
| VEP81058A | VEP81058A | VEP81058A | VEP81058A |

## RA.HA P.C.BOARD

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  |           |           |           |           |
| NTSC  | VEP85015A | VEP85015A | VEP85015C | VEP85015B |
| PAL   | VEP85015D | VEP85015D | VEP85015F | VEP85015E |

POWER SUPPLY A.P.C.B.  
POWER SUPPLY P.C.B.  
POWER FILTER P.C.B.  
RA. HA P.C.BOARD



| RA. HA    |     |      |     |                    |     |       |     |            |     |            |     |
|-----------|-----|------|-----|--------------------|-----|-------|-----|------------|-----|------------|-----|
| FOIL SIDE |     |      |     | INTEGRATED CIRCUIT |     |       |     | TEST POINT |     |            |     |
| Q10       | A-2 | Q205 | B-2 | Q216               | B-4 | IC1   | D-2 | TP3        | D-3 | TPG2       | D-4 |
| Q11       | B-2 | Q206 | B-3 | Q217               | D-1 | IC2   | D-2 | TP4        | D-4 | TPG3       | D-4 |
| Q12       | B-2 | Q207 | B-2 | Q218               | D-1 | IC201 | C-3 | TP5        | D-4 | ADJUSTMENT |     |
| Q13       | B-5 | Q208 | B-3 | Q219               | C-1 | IC202 | C-3 | TP6        | D-5 | VR1        | E-1 |
| Q14       | B-5 | Q209 | B-4 | Q220               | C-2 | IC203 | C-4 | TP7        | A-1 | VR2        | E-1 |
| Q15       | B-5 | Q210 | B-4 | Q221               | C-2 | IC204 | C-4 | TP8        | A-2 | VR3        | E-2 |
| Q16       | A-5 | Q211 | B-4 | Q222               | D-3 | IC205 | D-1 | TP201      | D-3 | VR4        | E-2 |
| Q17       | B-3 | Q212 | B-4 | Q223               | D-3 |       |     | TP202      | D-3 | VR5        | E-4 |
| Q18       | B-3 | Q213 | B-4 | Q224               | D-4 |       |     | TP203      | D-4 | VR6        | E-4 |
| Q19       | B-3 | Q214 | B-4 | Q225               | D-4 |       |     | TP204      | D-4 | CONNECTOR  |     |
| Q20       | B-3 | Q215 | B-4 |                    |     |       |     | TPG1       | E-2 | CN81       | D-1 |
| Q201      | B-3 |      |     |                    |     |       |     |            |     |            |     |
| Q202      | B-3 |      |     |                    |     |       |     |            |     |            |     |
| Q203      | B-3 |      |     |                    |     |       |     |            |     |            |     |
| Q204      | B-3 |      |     |                    |     |       |     |            |     |            |     |

REVERSE SIDE

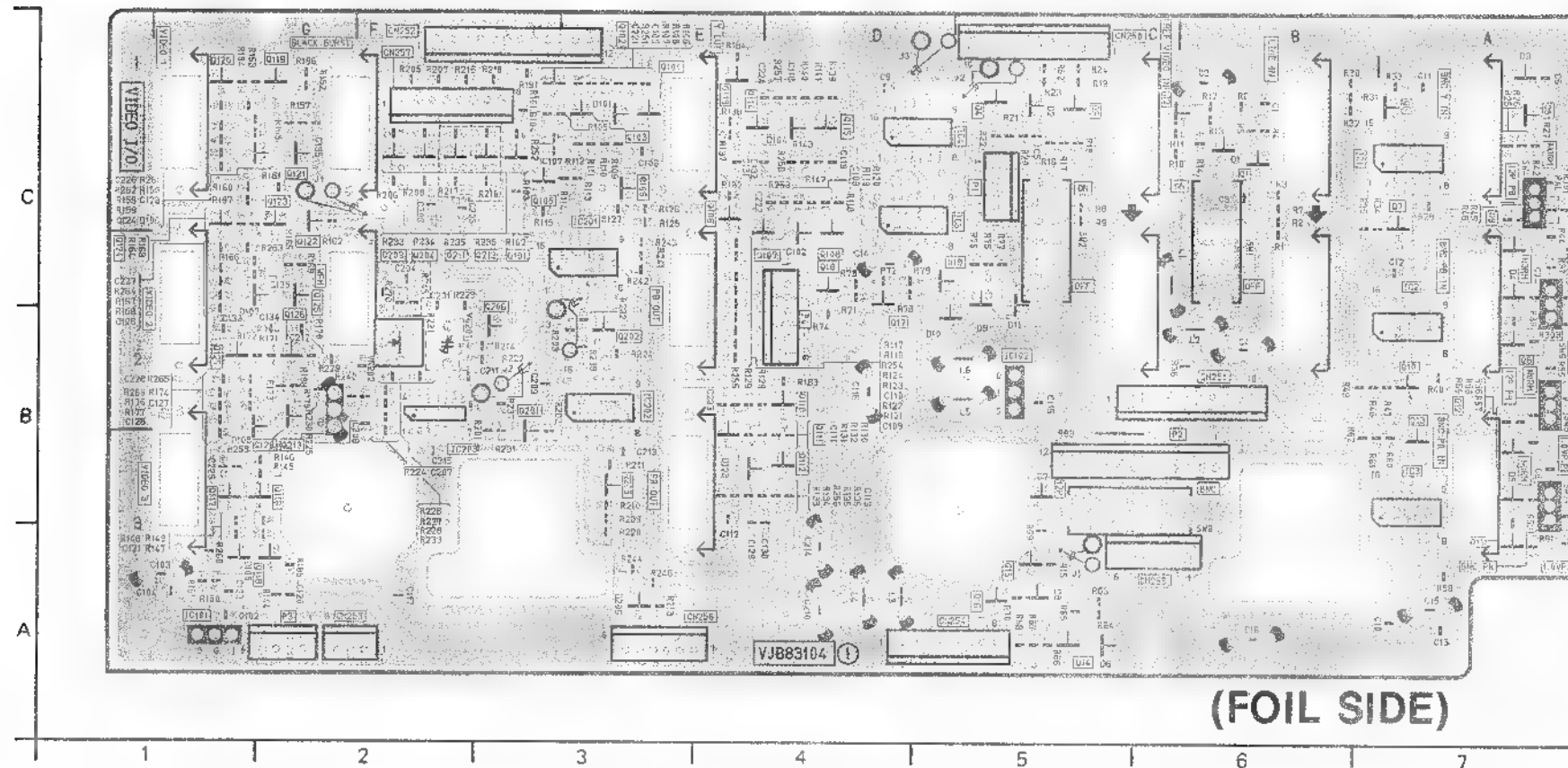
VIDEO I/O P.C.BOARD  
50P REMOTE P.C.BOARD

# VIDEO I/O P.C.BOARD

| MODEL | AU-665    | AU-65 | AU-63 | AU-62 |
|-------|-----------|-------|-------|-------|
| TYPE  | VEP83104A |       |       |       |
| NTSC  | VEP83104B |       |       |       |
| PAL   |           |       |       |       |

See Next Page

# VIDEO I/O P.C.BOARD



| VIDEO I/O |            |
|-----------|------------|
| FOIL SIDE | TRANSISTOR |
| Q1        | C-6        |
| Q2        | C-6        |
| Q3        | C-6        |
| Q4        | C-6        |
| Q5        | C-6        |
| Q6        | C-6        |
| Q7        | C-6        |
| Q8        | C-6        |
| Q9        | C-6        |
| Q10       | C-6        |
| Q11       | C-6        |
| Q12       | C-6        |
| Q13       | C-6        |
| Q14       | C-6        |
| Q15       | C-6        |
| Q16       | C-6        |
| Q17       | C-6        |
| Q18       | C-6        |
| Q19       | C-6        |
| Q20       | C-6        |
| Q21       | C-6        |
| Q22       | C-6        |
| Q23       | C-6        |
| Q24       | C-6        |
| Q25       | C-6        |
| Q26       | C-6        |
| Q27       | C-6        |
| Q28       | C-6        |
| Q29       | C-6        |
| Q30       | C-6        |
| Q31       | C-6        |
| Q32       | C-6        |
| Q33       | C-6        |
| Q34       | C-6        |
| Q35       | C-6        |
| Q36       | C-6        |
| Q37       | C-6        |
| Q38       | C-6        |
| Q39       | C-6        |
| Q40       | C-6        |
| Q41       | C-6        |
| Q42       | C-6        |
| Q43       | C-6        |
| Q44       | C-6        |
| Q45       | C-6        |
| Q46       | C-6        |
| Q47       | C-6        |
| Q48       | C-6        |
| Q49       | C-6        |
| Q50       | C-6        |
| Q51       | C-6        |
| Q52       | C-6        |
| Q53       | C-6        |
| Q54       | C-6        |
| Q55       | C-6        |
| Q56       | C-6        |
| Q57       | C-6        |
| Q58       | C-6        |
| Q59       | C-6        |
| Q60       | C-6        |
| Q61       | C-6        |
| Q62       | C-6        |
| Q63       | C-6        |
| Q64       | C-6        |
| Q65       | C-6        |
| Q66       | C-6        |
| Q67       | C-6        |
| Q68       | C-6        |
| Q69       | C-6        |
| Q70       | C-6        |
| Q71       | C-6        |
| Q72       | C-6        |
| Q73       | C-6        |
| Q74       | C-6        |
| Q75       | C-6        |
| Q76       | C-6        |
| Q77       | C-6        |
| Q78       | C-6        |
| Q79       | C-6        |
| Q80       | C-6        |
| Q81       | C-6        |
| Q82       | C-6        |
| Q83       | C-6        |
| Q84       | C-6        |
| Q85       | C-6        |
| Q86       | C-6        |
| Q87       | C-6        |
| Q88       | C-6        |
| Q89       | C-6        |
| Q90       | C-6        |
| Q91       | C-6        |
| Q92       | C-6        |
| Q93       | C-6        |
| Q94       | C-6        |
| Q95       | C-6        |
| Q96       | C-6        |
| Q97       | C-6        |
| Q98       | C-6        |
| Q99       | C-6        |
| Q100      | C-6        |

ADDRESS INFORMATION



| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP00E27C | VEP00E27C | VEP00E27C | VEP00E27C |
| NTSC  | VEP00E27C | VEP00E27C | VEP00E27C | VEP00E27C |
| PAL   | VEP00E27C | VEP00E27C | VEP00E27C | VEP00E27C |

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP00E28C | VEP00E28C | VEP00E28C | VEP00E28C |
| NTSC  | VEP00E28C | VEP00E28C | VEP00E28C | VEP00E28C |
| PAL   | VEP00E28C | VEP00E28C | VEP00E28C | VEP00E28C |

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP00E25C | VEP00E25C | VEP00E25C | VEP00E25C |
| NTSC  | VEP00E25C | VEP00E25C | VEP00E25C | VEP00E25C |
| PAL   | VEP00E25C | VEP00E25C | VEP00E25C | VEP00E25C |

| MODEL | AU-665    | AU-65    | AU-63    | AU-62    |
|-------|-----------|----------|----------|----------|
| TYPE  | VEP80083B | Not Used | Not Used | Not Used |
| NTSC  | VEP80083B | Not Used | Not Used | Not Used |
| PAL   | VEP80083B | Not Used | Not Used | Not Used |

| MODEL | AU-665    | AU-65 | AU-63 | AU-62 |
|-------|-----------|-------|-------|-------|
| TYPE  | VEP80621A | Not   | Not   | Not   |
| NTSC  | VEP80621A | Not   | Not   | Not   |
| PAL   | VEP80621A | Not   | Not   | Not   |

TR SENSOR(1) P.C.BOARD

(FOIL SIDE)



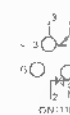
TR SENSOR(2) P.C.BOARD

(FOIL SIDE)



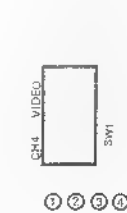
UNLOADING PHOTO P.C.BOARD

(FOIL SIDE)



VIDEO CH4 P.C.BOARD

(FOIL SIDE)



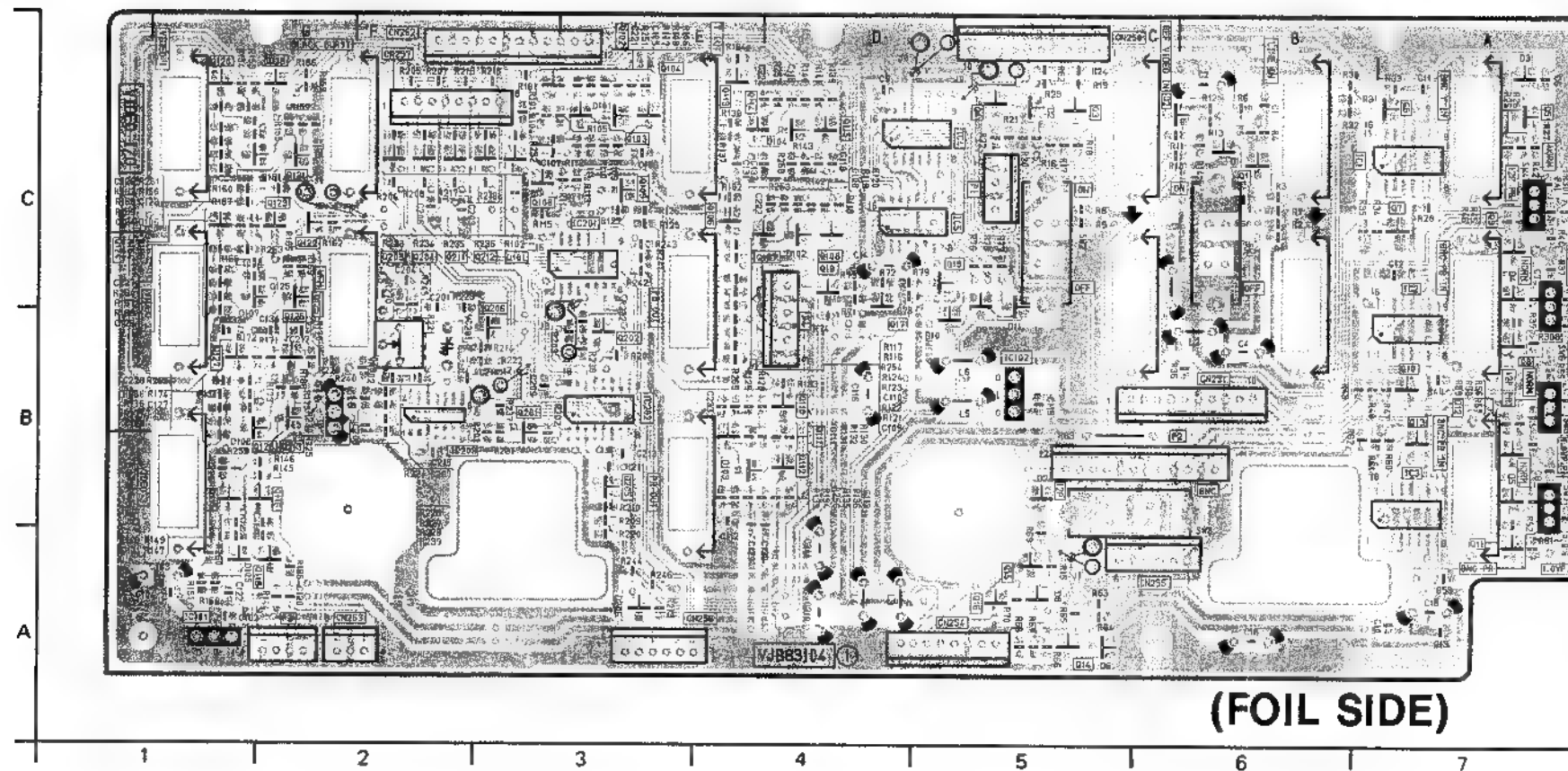
VIDEO VR P.C.BOARD



# VIDEO I/O P.C.BOARD

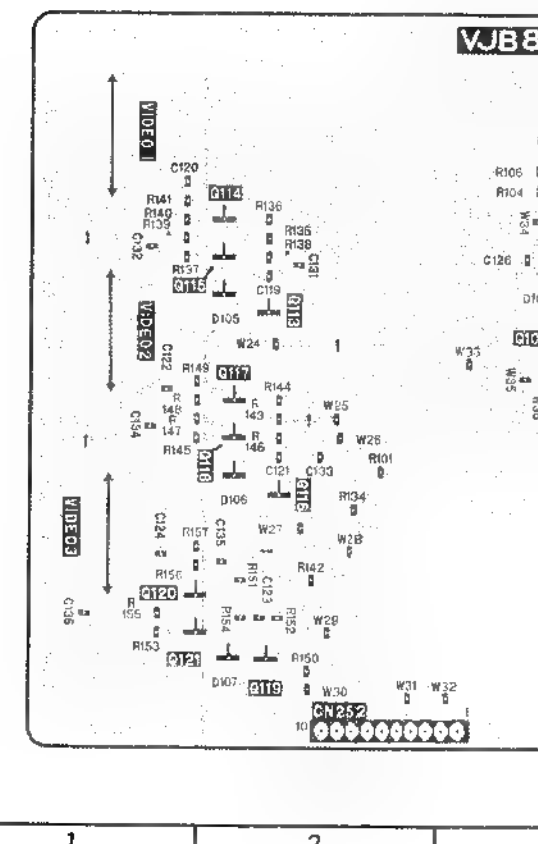
| MODEL | AU-665 | AU-65     | AU-63         | AU-62 |
|-------|--------|-----------|---------------|-------|
| TYPE  | NTSC   | VEP83104A | See Next Page |       |
|       | PAL    | VEP83104B |               |       |

# VIDEO I/O P.C.BOARD



| VIDEO I/O          |     |       |     |
|--------------------|-----|-------|-----|
| FOIL SIDE          |     |       |     |
| TRANSISTOR         |     |       |     |
| Q1                 | C-6 | Q125  | C-6 |
| Q2                 | C-6 | Q126  | B-2 |
| Q3                 | C-5 | Q127  | B-1 |
| Q4                 | C-5 | Q128  | B-2 |
| Q5                 | C-7 | Q201  | B-3 |
| Q6                 | C-7 | Q202  | B-3 |
| Q7                 | C-7 | Q203  | B-3 |
| Q8                 | C-7 | Q204  | B-3 |
| Q9                 | C-7 | Q205  | B-3 |
| Q10                | C-7 | Q206  | B-3 |
| Q11                | C-7 | Q211  | B-3 |
| Q12                | C-7 | Q212  | B-3 |
| Q13                | C-7 | Q213  | B-2 |
| Q14                | C-7 |       |     |
| Q15                | C-7 |       |     |
| Q16                | C-7 |       |     |
| Q17                | C-7 |       |     |
| Q18                | C-7 |       |     |
| Q19                | C-7 |       |     |
| Q101               | C-7 |       |     |
| Q102               | C-7 |       |     |
| Q103               | C-7 |       |     |
| Q104               | C-7 |       |     |
| Q105               | C-7 |       |     |
| Q106               | C-7 |       |     |
| Q107               | C-7 |       |     |
| Q108               | C-7 |       |     |
| Q109               | C-7 |       |     |
| Q110               | C-7 |       |     |
| Q111               | C-7 |       |     |
| Q112               | C-7 |       |     |
| Q113               | C-7 |       |     |
| Q114               | C-7 |       |     |
| Q115               | C-7 |       |     |
| Q116               | C-7 |       |     |
| Q117               | C-7 |       |     |
| Q118               | C-7 |       |     |
| Q119               | C-7 |       |     |
| Q120               | C-7 |       |     |
| Q121               | C-7 |       |     |
| Q122               | C-7 |       |     |
| Q123               | C-7 |       |     |
| Q124               | C-7 |       |     |
| INTEGRATED CIRCUIT |     |       |     |
| IC1                | C-7 | IC101 | A-1 |
| IC2                | B-7 | IC102 | B-6 |
| IC3                | B-7 | IC201 | C-3 |
| IC4                | A-5 | IC202 | B-2 |
| IC5                | C-6 | IC203 | B-2 |
| ADJUSTMENT         |     |       |     |
| VR202              | B-2 |       |     |
| CONNECTOR          |     |       |     |
| CN250              | C-6 |       |     |
| CN251              | B-6 |       |     |
| CN252              | C-9 |       |     |
| CN253              | A-2 |       |     |
| CN254              | A-5 |       |     |
| CN255              | A-6 |       |     |
| CN256              | A-3 |       |     |
| CN257              | C-2 |       |     |
| P1                 | C-6 |       |     |
| P2                 | B-6 |       |     |
| P3                 | A-2 |       |     |

ADDRESS INFORMATION



| MODEL | AU-665 | AU-65     | AU-63     | AU-62     |
|-------|--------|-----------|-----------|-----------|
| TYPE  | NTSC   | VEP00E27C | VEP00E27C | VEP00E27C |
|       | PAL    | VEP00E27C | VEP00E27C | VEP00E27C |

| MODEL | AU-665 | AU-65     | AU-63     | AU-62     |
|-------|--------|-----------|-----------|-----------|
| TYPE  | NTSC   | VEP00E28C | VEP00E28C | VEP00E28C |
|       | PAL    | VEP00E28C | VEP00E28C | VEP00E28C |

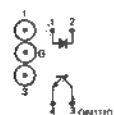
| MODEL | AU-665 | AU-65     | AU-63     | AU-62     |
|-------|--------|-----------|-----------|-----------|
| TYPE  | NTSC   | VEP00E25C | VEP00E25C | VEP00E25C |
|       | PAL    | VEP00E25C | VEP00E25C | VEP00E25C |

| MODEL | AU-665 | AU-65     | AU-63    | AU-62    |
|-------|--------|-----------|----------|----------|
| TYPE  | NTSC   | VEP80083B | Not Used | Not Used |
|       | PAL    | VEP80083B | Not Used | Not Used |

| MODEL | AU-665 | AU-65     | AU-63 | AU-62 |
|-------|--------|-----------|-------|-------|
| TYPE  | NTSC   | VEP80621A | Not   | Not   |
|       | PAL    | VEP80621A | Not   | Not   |

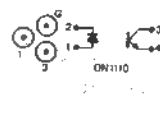
TR SENSOR(1) P.C.BOARD

(FOIL SIDE)



TR SENSOR(2) P.C.BOARD

(FOIL SIDE)



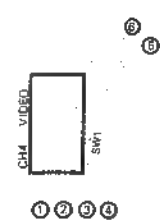
UNLOADING PHOTO P.C.BOARD

(FOIL SIDE)

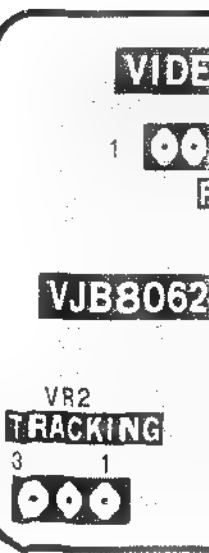


VIDEO CH4 P.C.BOARD

(FOIL SIDE)



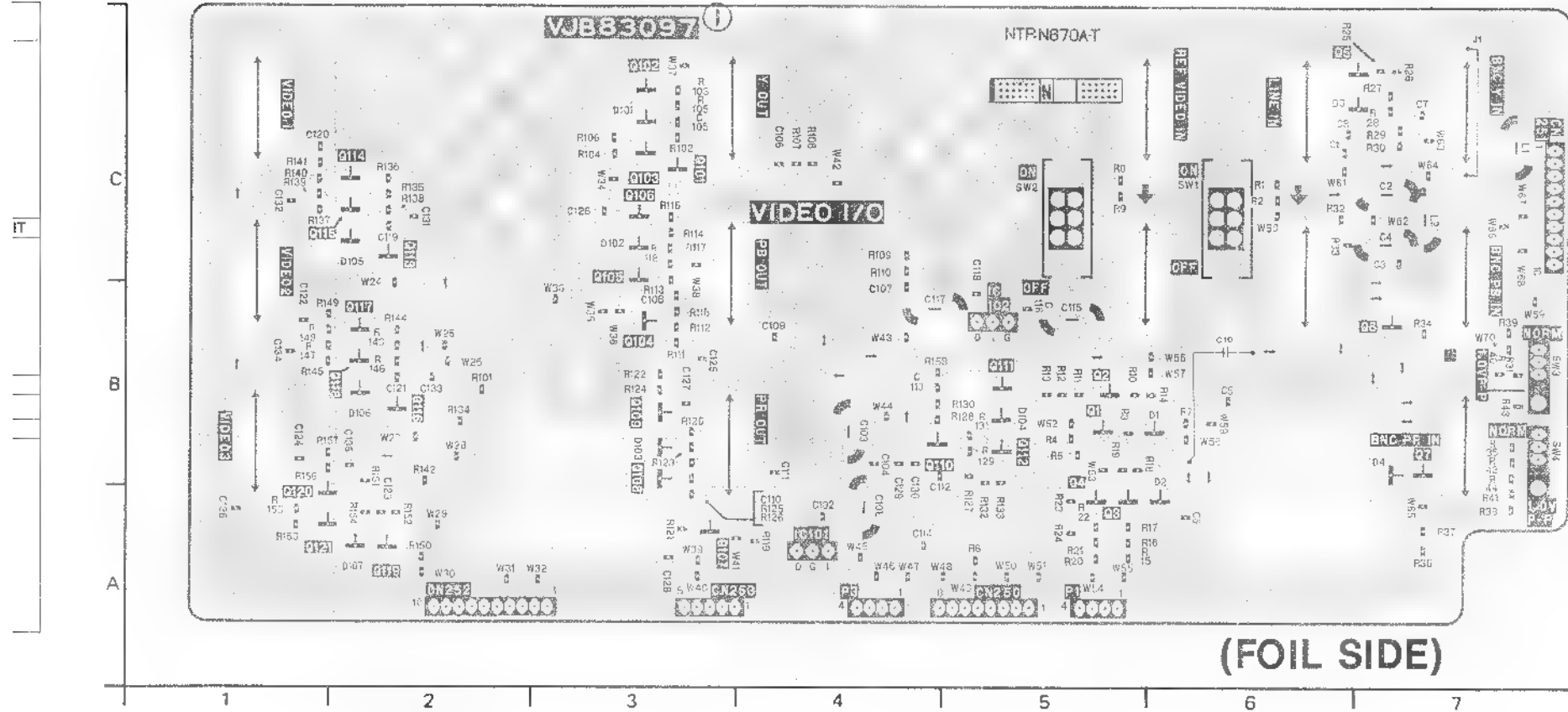
VIDEO VR P.C.BOARD





VIDEO I/O P.C.BOARD

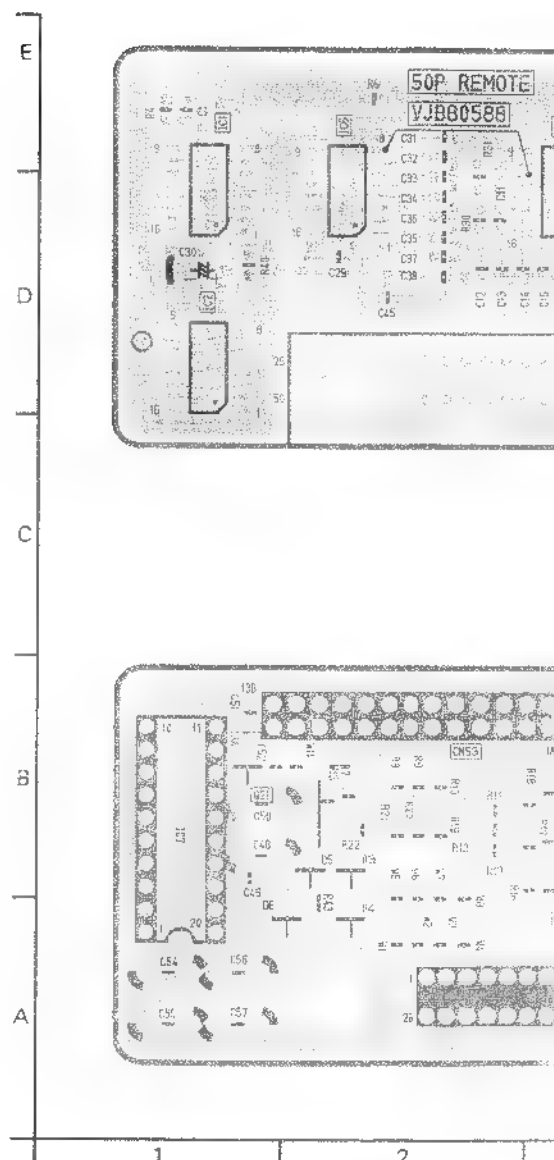
| MODEL TYPE | AU-665         | AU-65     | AU-63     | AU-62     |
|------------|----------------|-----------|-----------|-----------|
| NTSC       | See Front Page | VEP83097A | VEP83097B | VEP83097B |
| PAL        |                | VEP83097C | VEP83097B | VEP83097C |



| VIDEO I/O  |     |                    |
|------------|-----|--------------------|
| FOIL SIDE  |     | INTEGRATED CIRCUIT |
| TRANSISTOR |     |                    |
| Q1         | B-5 | IC101 A-4          |
| Q2         | B-5 | IC102 B-5          |
| Q3         | A-5 | CONNECTOR          |
| Q4         | A-5 | CN250 A-5          |
| Q5         | C-7 | CN251 C-7          |
| Q6         | B-7 | CN252 A-2          |
| Q7         | B-7 | CN253 A-3          |
| Q101       | C-3 | P1 A-5             |
| Q102       | C-3 | P3 A-4             |
| Q103       | C-3 |                    |
| Q104       | B-3 |                    |
| Q105       | C-3 |                    |
| Q106       | C-3 |                    |
| Q107       | A-3 |                    |
| Q108       | B-3 |                    |
| Q109       | B-3 |                    |
| Q110       | B-4 |                    |
| Q111       | B-5 |                    |
| Q112       | B-5 |                    |
| Q113       | C-2 |                    |
| Q114       | C-2 |                    |
| Q115       | C-2 |                    |
| Q116       | B-2 |                    |
| Q117       | B-2 |                    |
| Q118       | B-2 |                    |
| Q119       | A-2 |                    |
| Q120       | A-1 |                    |
| Q121       | A-1 |                    |

ADDRESS INFORMATION

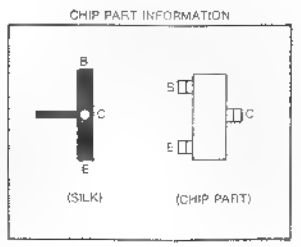
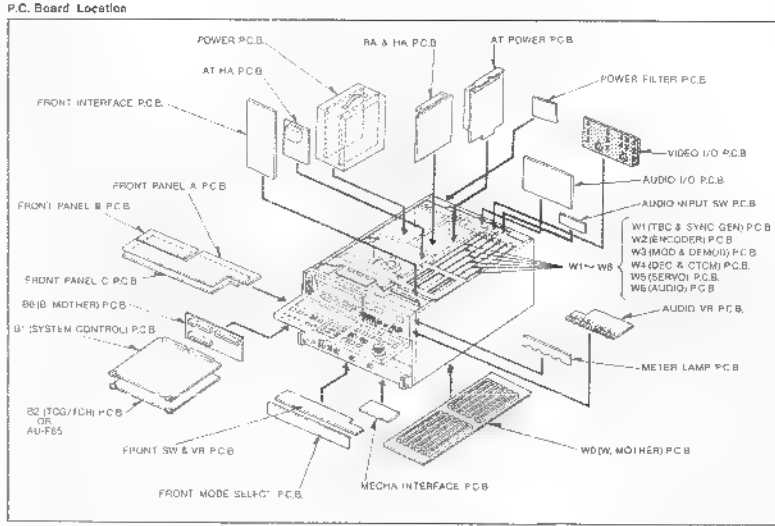
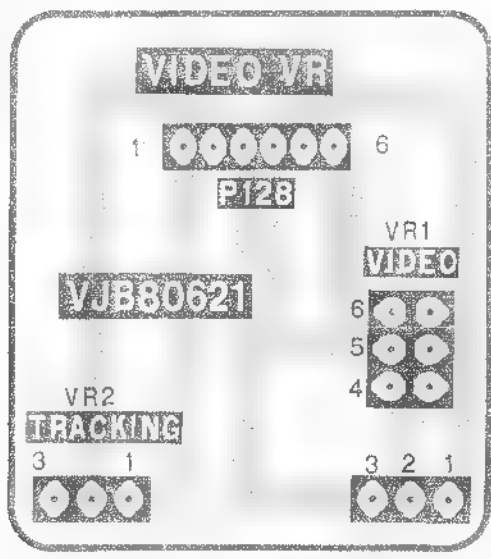
50P REMOTE P.C.B.



|          |          |          |
|----------|----------|----------|
| AU-65    | AU-63    | AU-62    |
| Not Used | Not Used | Not Used |
| Not Used | Not Used | Not Used |

| MODEL TYPE | AU-665    | AU-65    | AU-63    | AU-62    |
|------------|-----------|----------|----------|----------|
| NTSC       | VEP80621A | Not Used | Not Used | Not Used |
| PAL        | VEP80621A | Not Used | Not Used | Not Used |

VIDEO VR P.C.BOARD (FOIL SIDE)



| FOIL SIDE          |     |     |
|--------------------|-----|-----|
| TRANSISTOR         |     |     |
| Q18                | D-5 | Q1  |
| INTEGRATED CIRCUIT |     |     |
| IC1                | D-1 | Q2  |
| IC2                | D-1 | Q3  |
| IC3                | D-4 | Q4  |
| IC4                | D-3 | Q5  |
| IC5                | D-3 | Q6  |
| IC6                | D-2 | Q7  |
| IC7                | D-5 | Q8  |
| CONNECTOR          |     |     |
| CN53               | E-4 | Q9  |
| CN361              | D-3 | Q10 |

ADDRESS INFORMATION

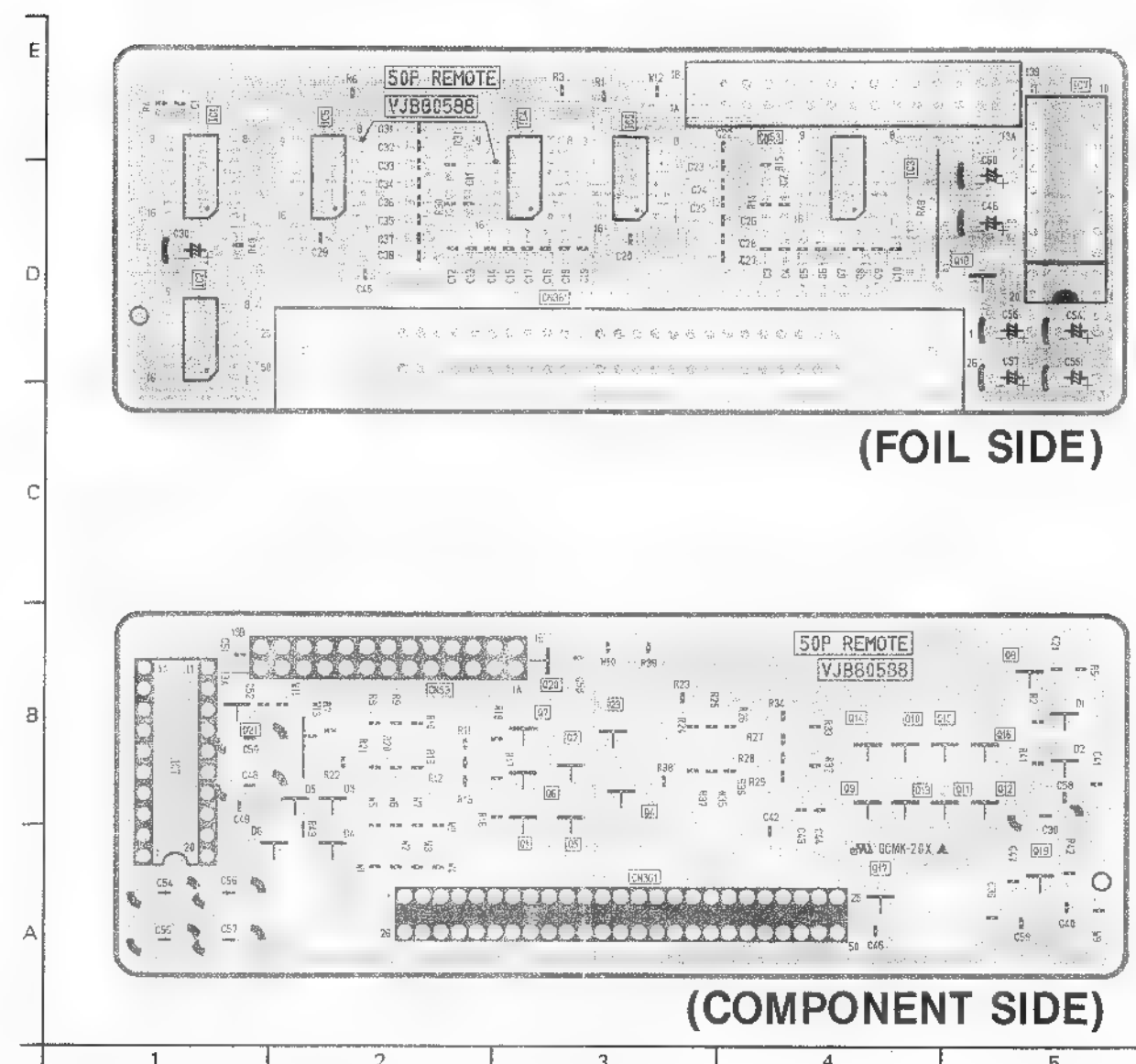
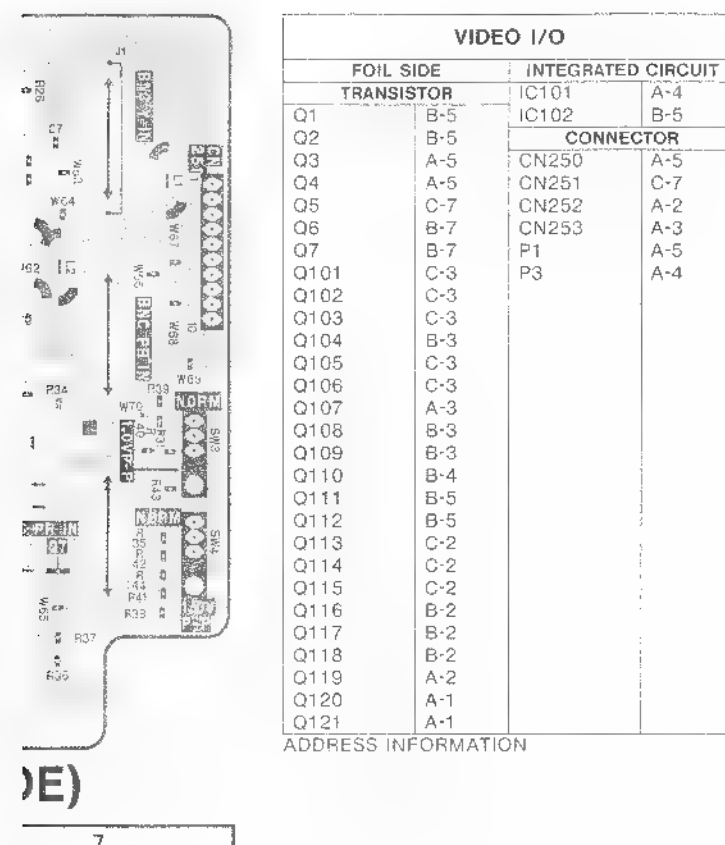
This P.C.Board is a P.C.Board Diagram for AU-MK25 section

| MODEL | AU-665    | AU-65                    | AU-63 | AU-62 |
|-------|-----------|--------------------------|-------|-------|
| TYPE  | VEP80558A | Refer To AU-MK25 Section |       |       |
| NTSC  | VEP80558A |                          |       |       |
| PAL   | VEP80558A |                          |       |       |

| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP80551B | VEP80551A | VEP80551A | VEP80551A |
| NTSC  | VEP80551B | VEP80551A | VEP80551A | VEP80551A |
| PAL   | VEP80551B | VEP80551A | VEP80551A | VEP80551A |

## 50P REMOTE P.C.BOARD

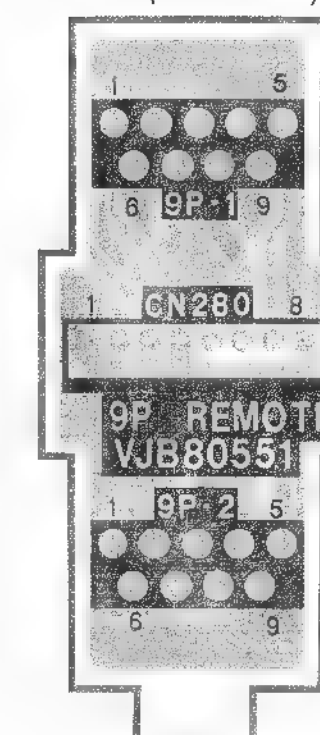
## 9P REMOTE P.C.BOARD



| 50P REMOTE         |                |     |     |
|--------------------|----------------|-----|-----|
| FOIL SIDE          | COMPONENT SIDE |     |     |
| TRANSISTOR         | TRANSISTOR     |     |     |
| Q18                | D-5            | Q1  | B-3 |
| INTEGRATED CIRCUIT |                | Q2  | B-3 |
| IC1                | D-1            | Q3  | B-3 |
| IC2                | D-1            | Q4  | B-3 |
| IC3                | D-4            | Q5  | B-3 |
| IC4                | D-3            | Q6  | B-3 |
| IC5                | D-3            | Q7  | B-3 |
| IC6                | D-2            | Q8  | B-5 |
| IC7                | D-5            | Q9  | B-4 |
| CONNECTOR          |                | Q10 | B-4 |
| CN53               | E-4            | Q11 | B-5 |
| CN361              | D-3            | Q12 | B-5 |
|                    |                | Q13 | B-4 |
|                    |                | Q14 | B-4 |
|                    |                | Q15 | B-5 |
|                    |                | Q16 | B-5 |
|                    |                | Q17 | A-4 |
|                    |                | Q19 | A-5 |
|                    |                | Q20 | B-3 |
|                    |                | Q21 | B-1 |

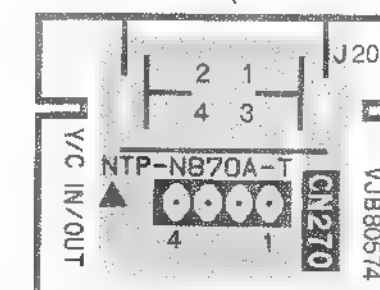
ADDRESS INFORMATION

## (FOIL SIDE)



## YC IN/OUT P.C.BOARD

## (FOIL SIDE)



| MODEL | AU-665    | AU-65     | AU-63     | AU-62     |
|-------|-----------|-----------|-----------|-----------|
| TYPE  | VEP80574A | VEP80574A | VEP80574A | VEP80574A |
| NTSC  | VEP80574A | VEP80574A | VEP80574A | VEP80574A |
| PAL   | VEP80574A | VEP80574A | VEP80574A | VEP80574A |

This P.C.Board Diagram is used for AU-665.  
P.C.Board Diagram of AU-MK25 is shown in  
AU-MK25 section, page after 8-1.

## W1(TBC & SYNC GEN) WAVEFORMS FOR NTSC

|            |         |        |        |        |
|------------|---------|--------|--------|--------|
| TEST POINT | TP201   | TP202  | TP203  | TP204  |
| VOLTS/DIV. | 200mV   | 200mV  | 500mV  | 2V     |
| SEC/DIV.   | 20usec  | 20usec | 20usec | 20usec |
| MODE       | PLAY    | PLAY   | PLAY   | PLAY   |
| WAVEFORM   |         |        |        |        |
| TEST POINT | TP207   | TP208  | TP210  | TP211  |
| VOLTS/DIV. | 2V      | 2V     | 2V     | 2V     |
| SEC/DIV.   | 100nsec | 20usec | 20usec | 20usec |
| MODE       | PLAY    | PLAY   | PLAY   | PLAY   |
| WAVEFORM   |         |        |        |        |
| TEST POINT | TP212   | TP213  | TP214  | TP215  |
| VOLTS/DIV. | 2V      | 2V     | 2V     | 2V     |
| SEC/DIV.   | 20usec  | 5msec  | 10msec | 10msec |
| MODE       | PLAY    | PLAY   | PLAY   | PLAY   |
| WAVEFORM   |         |        |        |        |
| TEST POINT | TP412   | TP413  | TP416  | TP417  |
| VOLTS/DIV. | 2V      | 2V     | 2V     | 2V     |
| SEC/DIV.   | 20usec  | 20usec | 20usec | 20usec |
| MODE       | PLAY    | PLAY   | PLAY   | PLAY   |
| WAVEFORM   |         |        |        |        |
| TEST POINT | TP422   | TP423  | TP424  | TP425  |
| VOLTS/DIV. | 2V      | 2V     | 2V     | 2V     |
| SEC/DIV.   | 20usec  | 20usec | 20usec | 50usec |
| MODE       | PLAY    | PLAY   | PLAY   | PLAY   |
| WAVEFORM   |         |        |        |        |

These waveforms are taken by a scope in AC mode.


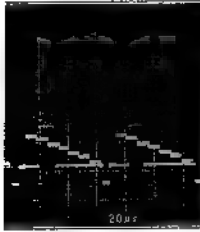
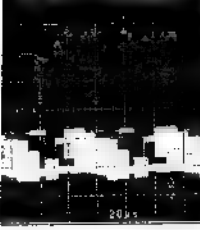
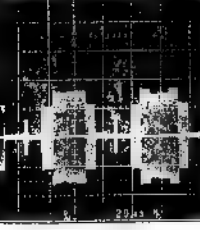
5-3-27

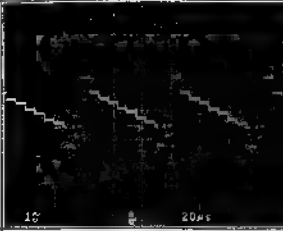
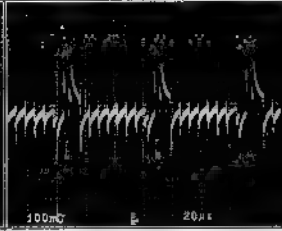
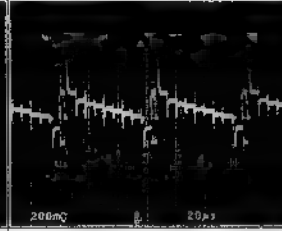
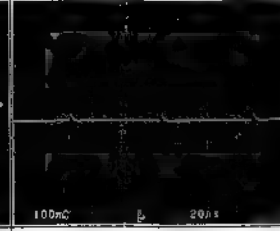
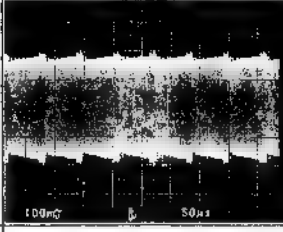
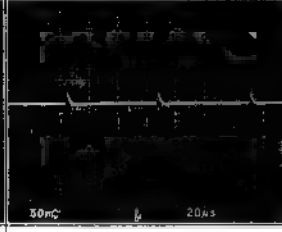
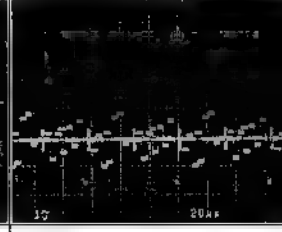
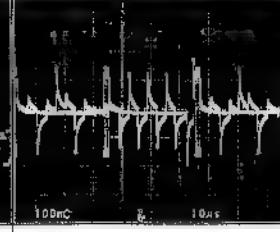
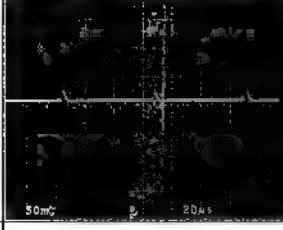
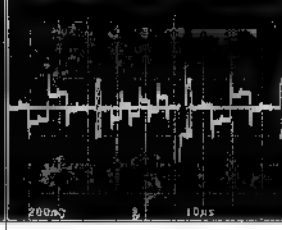
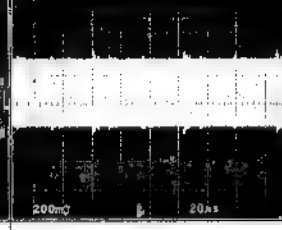
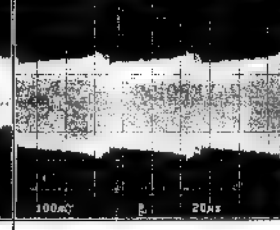
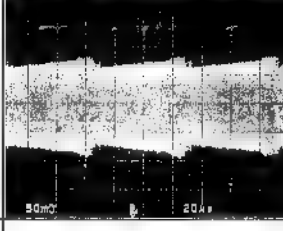
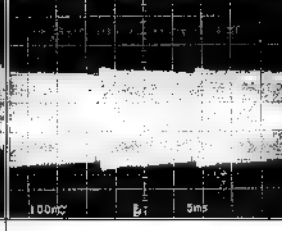
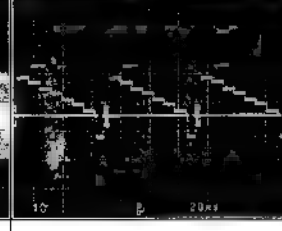
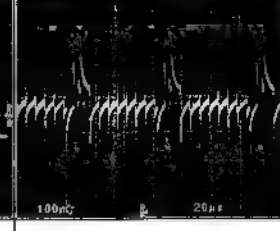
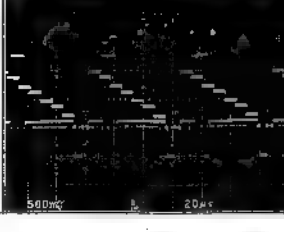
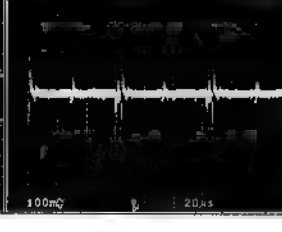
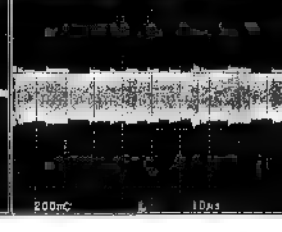

## W2(ENCODER) WAVEFORMS FOR NTSC

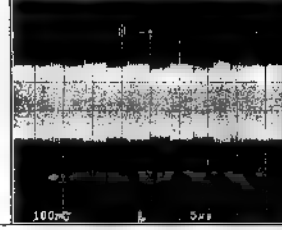
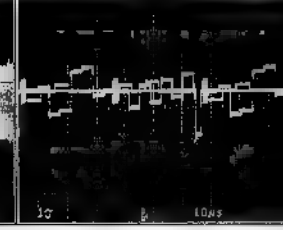
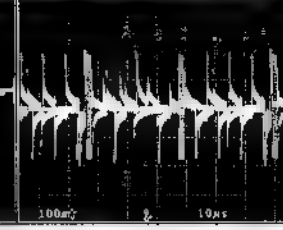
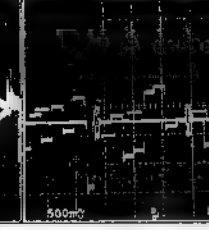
|            |        |        |        |        |
|------------|--------|--------|--------|--------|
| TEST POINT | TP1    | TP2    | TP3    | TP4    |
| VOLTS/DIV. | 500mV  | 500mV  | 1V     | 500mV  |
| SEC/DIV.   | 20usec | 10usec | 20usec | 10usec |
| MODE       | PLAY   | PLAY   | PLAY   | PLAY   |
| WAVEFORM   |        |        |        |        |
| TEST POINT | TP6    | TP7    | TP201  | TP202  |
| VOLTS/DIV. | 200mV  | 100mV  | 500mV  | 1V     |
| SEC/DIV.   | 20usec | 10usec | 20usec | 20usec |
| MODE       | PLAY   | PLAY   | PLAY   | PLAY   |
| WAVEFORM   |        |        |        |        |
| TEST POINT | TP203  | TP204  | TP206  | TP501  |
| VOLTS/DIV. | 500mV  | 500mV  | 500mV  | 500mV  |
| SEC/DIV.   | 20usec | 20usec | 20usec | 20usec |
| MODE       | PLAY   | PLAY   | PLAY   | PLAY   |
| WAVEFORM   |        |        |        |        |
| TEST POINT | TP502  | TP503  | TP505  | TP506  |
| VOLTS/DIV. | 200mV  | 200mV  | 1V     | 500mV  |
| SEC/DIV.   | 20usec | 20usec | 20usec | 20usec |
| MODE       | PLAY   | PLAY   | PLAY   | PLAY   |
| WAVEFORM   |        |        |        |        |
| TEST POINT | TP507  |        |        |        |
| VOLTS/DIV. | 1V     |        |        |        |
| SEC/DIV.   | 20usec |        |        |        |
| MODE       | PLAY   |        |        |        |
| WAVEFORM   |        |        |        |        |

These waveforms are taken by a scope in AC mode.

# W3(MOD & DEMOD) WAVEFORMS FOR NTSC


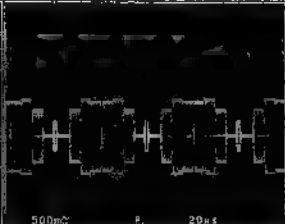

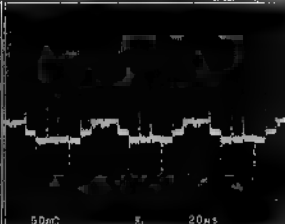
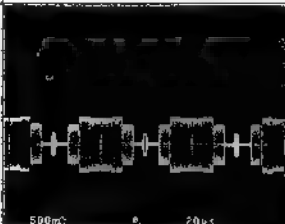

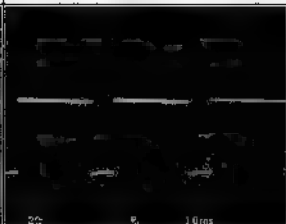



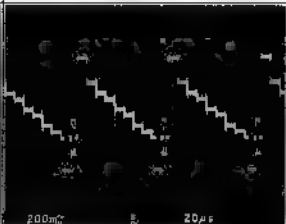
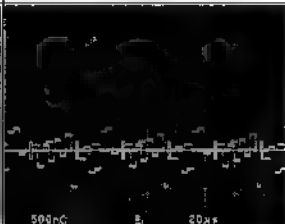

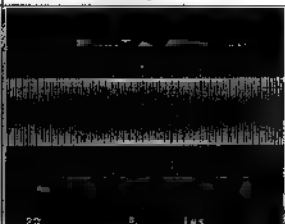
|   |
|---|
| TP4   |
| 500mV   |
| 10usec  |
| PLAY  |
|    |
| TP202   |
| 1V  |
| 20usec  |
| PLAY  |
|    |
| TP501   |
| 500mV   |
| 20usec  |
| PLAY  |
|   |
| TP506   |
| 500mV   |
| 20usec  |
| PLAY  |
|  |

| TEST POINT | TP1   | TP3  | TP5   | TP6   |
|------------|---|--|---|---|
| VOLTS/DIV. | 1V  | 100mV  | 200mV   | 100mV   |
| SEC/DIV.   | 20usec  | 20usec   | 20usec  | 20usec  |
| MODE       | REC   | REC  | REC   | REC   |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP7   | TP8  | TP201   | TP203   |
| VOLTS/DIV. | 100mV   | 50mV   | 1V  | 100mV   |
| SEC/DIV.   | 50usec  | 20usec   | 20usec  | 10usec  |
| MODE       | REC   | REC  | REC   | REC   |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP204   | TP205  | TP207   | TP301   |
| VOLTS/DIV. | 50mV  | 200mV  | 200mV   | 100mV   |
| SEC/DIV.   | 20usec  | 10usec   | 20usec  | 20usec  |
| MODE       | REC   | REC  | REC   | PLAY  |
| WAVEFORM   |   |   |   |   |
| TEST POINT | TP302   | TP307  | TP309   | TP310   |
| VOLTS/DIV. | 50mV  | 100mV  | 1V  | 100mV   |
| SEC/DIV.   | 20usec  | 5msec  | 20usec  | 20usec  |
| MODE       | PLAY  | PLAY   | PLAY  | PLAY  |
| WAVEFORM   |  |  |  |  |
| TEST POINT | TP311   | TP316  | TP701   | TP702   |
| VOLTS/DIV. | 500mV   | 100mV  | 200mV   | 100mV   |
| SEC/DIV.   | 20usec  | 20usec   | 10usec  | 20usec  |
| MODE       | PLAY  | PLAY   | PLAY  | PLAY  |
| WAVEFORM   |  |  |  |  |

| TEST POINT | TP703   | TP706   | TP707   | TP708   |
|------------|---|---|---|---|
| VOLTS/DIV. | 100mV   | 1V  | 100mV   | 500mV   |
| SEC/DIV.   | 5usec   | 10usec  | 10usec  | 10usec  |
| MODE       | PLAY  | PLAY  | PLAY  | PLAY  |
| WAVEFORM   |  |  |  |  |


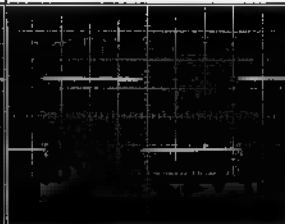
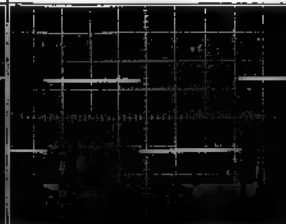
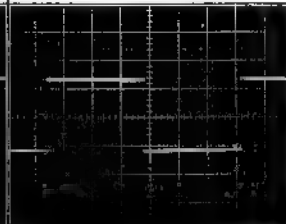
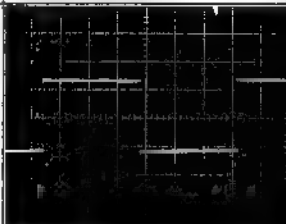

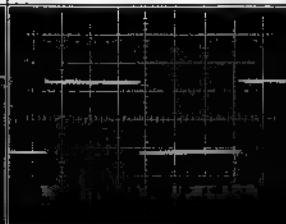
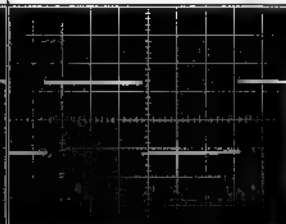

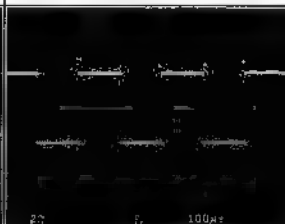
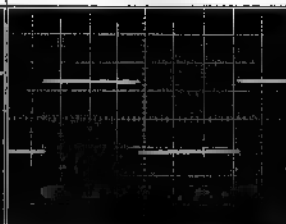
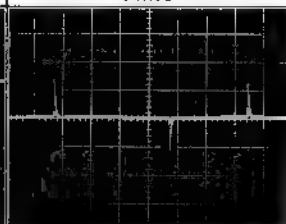
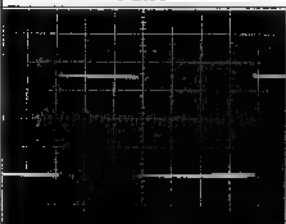


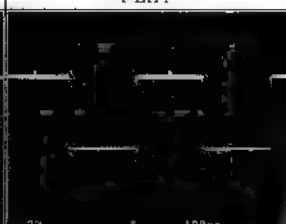

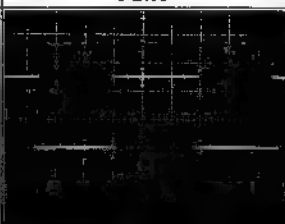

These waveforms are taken by a scope in AC mode.

W4(DECODER & CTCM) WAVEFORMS FOR NTSC

|            |   |   |   |  |
|------------|---|---|---|--|
| TEST POINT | TP3   | TP202   | TP203   | TP204  |
| VOLTS/DIV. | 500mV   | 500mV   | 100mV   | 50mV   |
| SEC/DIV.   | 20usec  | 20usec  | 20usec  | 20usec   |
| MODE       | REC   | REC   | REC   | REC  |
| WAVEFORM   |    |    |   |   |
| TEST POINT | TP205   | TP206   | TP401   | TP403  |
| VOLTS/DIV. | 500mV   | 200mV   | 2V  | 2V   |
| SEC/DIV.   | 20usec  | 20usec  | 10msec  | 10msec   |
| MODE       | REC   | REC   | REC   | REC  |
| WAVEFORM   |    |    |   |   |
| TEST POINT | TP501   | TP502   | TP504   | TP601  |
| VOLTS/DIV. | 200mV   | 200mV   | 200mV   | 200mV  |
| SEC/DIV.   | 20usec  | 20usec  | 20usec  | 10usec   |
| MODE       | REC   | REC   | REC   | REC  |
| WAVEFORM   |   |   |  |  |
| TEST POINT | TP703   | TP704   |   |  |
| VOLTS/DIV. | 2V  | 2V  |   |  |
| SEC/DIV.   | 20usec  | 1usec   |   |  |
| MODE       | REC   | REC   |   |  |
| WAVEFORM   |  |  |   |  |

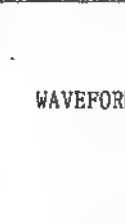




These waveforms are taken by a scope in AC mode.

W5(SERVO) WAVEFORMS FOR NTSC

|            |   |   |   |   |
|------------|---|---|---|---|
| TEST POINT | TP3   | TP4   | TP5   | TP6   |
| VOLTS/DIV. | 2V  | 2V  | 2V  | 2V  |
| SEC/DIV.   | 5msec   | 5msec   | 5msec   | 5msec   |
| MODE       | PLAY  | PLAY  | PLAY  | PLAY  |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP7   | TP13  | TP15  | TP17  |
| VOLTS/DIV. | 2V  | 2V  | 2V  | 2V  |
| SEC/DIV.   | 5msec   | 20usec  | 5msec   | 5msec   |
| MODE       | PLAY  | PLAY  | PLAY  | PLAY  |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP102   | TP104   | TP105   | TP109   |
| VOLTS/DIV. | 2V  | 2V  | 2V  | 1V  |
| SEC/DIV.   | 10msec  | 100usec   | 5msec   | 5msec   |
| MODE       | PLAY  | PLAY  | PLAY  | PLAY  |
| WAVEFORM   |   |   |   |   |
| TEST POINT | TP110   | TP113   | TP114   | TP115   |
| VOLTS/DIV. | 2V  | 5V  | 2V  | 2V  |
| SEC/DIV.   | 5msec   | 500usec   | 100usec   | 100usec   |
| MODE       | PLAY  | PLAY  | PLAY  | PLAY  |
| WAVEFORM   |  |  |  |  |
| TEST POINT | TP118   | TP201   | TP202   |   |
| VOLTS/DIV. | 5V  | 2V  | 2V  |   |
| SEC/DIV.   | 20msec  | 2msec   | 2msec   |   |
| MODE       | PLAY  | PLAY  | PLAY  |   |
| WAVEFORM   |  |  |  |   |

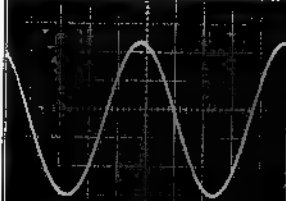
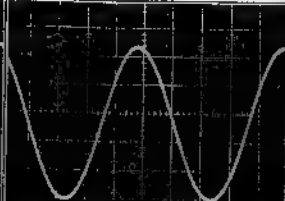
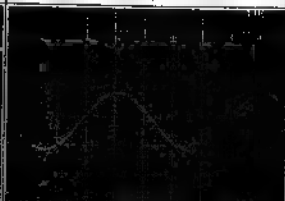



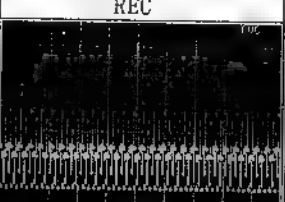




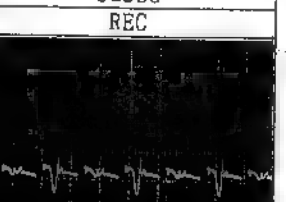


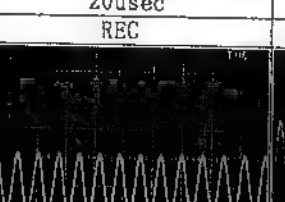


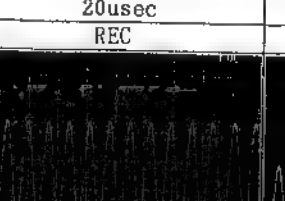


These waveforms are taken by a scope in AC mode.











W6(AU

|            |   |
|------------|---|
| TEST POINT | TP1   |
| VOLTS/DIV. | 2V  |
| SEC/DIV.   | 5msec   |
| MODE       | PLAY  |
| WAVEFORM   |    |
| TEST POINT | TP2   |
| VOLTS/DIV. | 2V  |
| SEC/DIV.   | 5msec   |
| MODE       | PLAY  |
| WAVEFORM   |    |
| TEST POINT | TP3   |
| VOLTS/DIV. | 2V  |
| SEC/DIV.   | 5msec   |
| MODE       | PLAY  |
| WAVEFORM   |   |
| TEST POINT | TP4   |
| VOLTS/DIV. | 2V  |
| SEC/DIV.   | 5msec   |
| MODE       | PLAY  |
| WAVEFORM   |  |
| TEST POINT | TP5   |
| VOLTS/DIV. | 2V  |
| SEC/DIV.   | 5msec   |
| MODE       | PLAY  |
| WAVEFORM   |  |



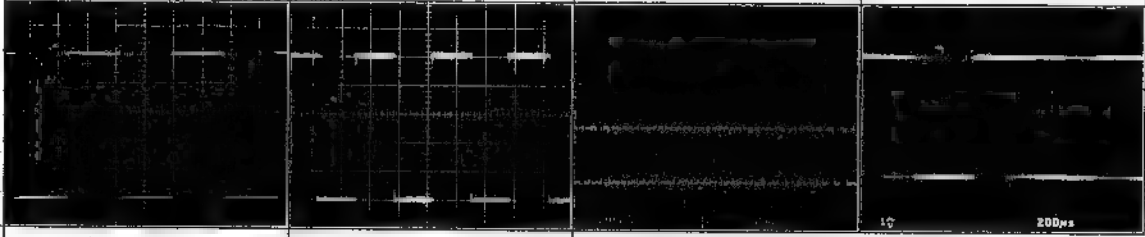
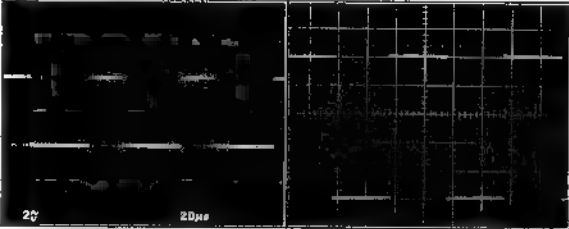
# W6(AUDIO) WAVEFORMS FOR NTSC

|            |   |  |   |   |
|------------|---|--|---|---|
| TEST POINT | TP101   | TP102  | TP201   | TP301   |
| VOLTS/DIV. | 200mV   | 200mV  | 500mV   | 200mV   |
| SEC/DIV.   | 200usec   | 200usec  | 200usec   | 200usec   |
| MODE       | PLAY  | PLAY   | REC   | PLAY  |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP302   | TP401  | TP551   | TP552   |
| VOLTS/DIV. | 200mV   | 500mV  | 200mV   | 200mV   |
| SEC/DIV.   | 200usec   | 200usec  | 5usec   | 5usec   |
| MODE       | PLAY  | REC  | REC   | REC   |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP553   | TP554  | TP555   | TP556   |
| VOLTS/DIV. | 200mV   | 200mV  | 200mV   | 200mV   |
| SEC/DIV.   | 5usec   | 5usec  | 5usec   | 5usec   |
| MODE       | REC   | REC  | REC   | REC   |
| WAVEFORM   |   |   |   |   |
| TEST POINT | TP557   | TP558  | TP601   | TP602   |
| VOLTS/DIV. | 200mV   | 200mV  | 50mV  | 200mV   |
| SEC/DIV.   | 5usec   | 5usec  | 20usec  | 20usec  |
| MODE       | REC   | REC  | REC   | REC   |
| WAVEFORM   |  |  |  |  |
| TEST POINT | TP603   | TP604  | TP605   | TP606   |
| VOLTS/DIV. | 50mV  | 200mV  | 50mV  | 200mV   |
| SEC/DIV.   | 20usec  | 20usec   | 20usec  | 20usec  |
| MODE       | REC   | REC  | REC   | REC   |
| WAVEFORM   |  |  |  |  |

|            |  |  |   |   |
|------------|--|--|---|---|
| TEST POINT | TP607  | TP608  | TP609   | TP702   |
| VOLTS/DIV. | 50mV   | 200mV  | 200mV   | 200mV   |
| SEC/DIV.   | 20usec   | 20usec   | 20usec  | 500usec   |
| MODE       | REC  | REC  | REC   | PLAY  |
| WAVEFORM   |   |   |  |  |
| TEST POINT | TP703  | TP704  | TP802   | TP803   |
| VOLTS/DIV. | 20mV   | 200mV  | 200mV   | 20mV  |
| SEC/DIV.   | 5msec  | 20usec   | 500usec   | 5usec   |
| MODE       | PLAY   | REC  | PLAY  | PLAY  |
| WAVEFORM   |   |   |  |  |
| TEST POINT | TP804  | TP901  |   |   |
| VOLTS/DIV. | 200mV  | 2V   |   |   |
| SEC/DIV.   | 20usec   | 5msec  |   |   |
| MODE       | REC  | PLAY   |   |   |
| WAVEFORM   |  |  |   |   |

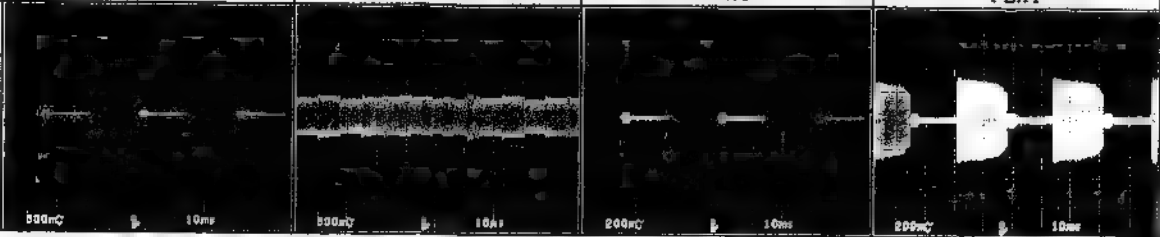
These waveforms are taken by a scope in AC mode.

B2(TC & BB) WAVEFORMS FOR NTSC

|            |  |         |       |         |
|------------|--|---------|-------|---------|
| TEST POINT | TP1  | TP2     | TP3   | TP4     |
| VOLTS/DIV. | 1V   | 1V      | 500mV | 1V      |
| SEC/DIV.   | 5usec  | 5usec   | 2msec | 200usec |
| MODE       | PLAY   | PLAY    | PLAY  | PLAY    |
| WAVEFORM   |  |         |       |         |
| TEST POINT | TP5  | TP6     |       |         |
| VOLTS/DIV. | 2V   | 1V      |       |         |
| SEC/DIV.   | 20usec   | 500usec |       |         |
| MODE       | PLAY   | PLAY    |       |         |
| WAVEFORM   |  |         |       |         |

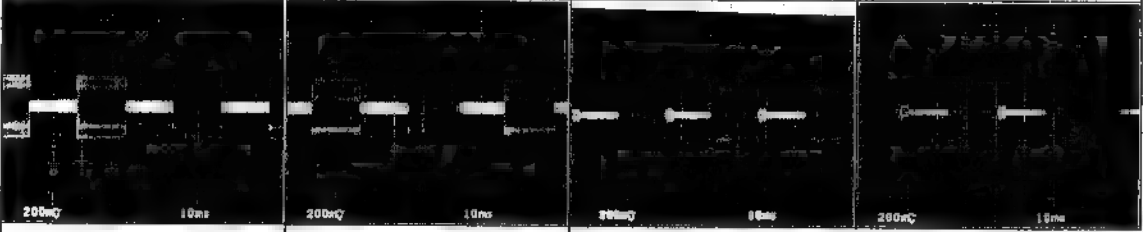
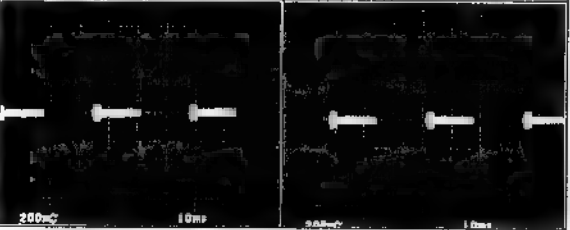
These waveforms are taken by a scope in AC mode.

AT POWER WAVEFORMS FOR NTSC

|            |   |        |        |        |
|------------|---|--------|--------|--------|
| TEST POINT | TP1   | TP2    | TP3    | TP4    |
| VOLTS/DIV. | 500mV   | 500mV  | 200mV  | 200mV  |
| SEC/DIV.   | 10msec  | 10usec | 10msec | 10nsec |
| MODE       | PLAY  | PLAY   | PLAY   | PLAY   |
| WAVEFORM   |  |        |        |        |

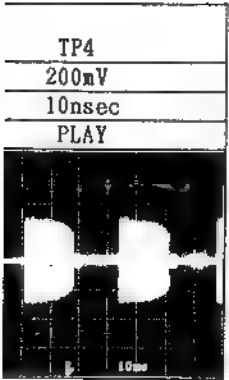
These waveforms are taken by a scope in AC mode.

RA & HA WAVEFORMS FOR NTSC

|            |  |              |        |        |
|------------|--|--------------|--------|--------|
| TEST POINT | TP7  | TP8          | TP201  | TP202  |
| VOLTS/DIV. | 200mV  | 200mV        | 200mV  | 200mV  |
| SEC/DIV.   | 10msec   | 10msec       | 10msec | 10msec |
| MODE       | VIDEO INSERT   | VIDEO INSERT | PLAY   | PLAY   |
| WAVEFORM   |  |              |        |        |
| TEST POINT | TP203  | TP204        |        |        |
| VOLTS/DIV. | 200mV  | 200mV        |        |        |
| SEC/DIV.   | 10msec   | 10msec       |        |        |
| MODE       | PLAY   | PLAY         |        |        |
| WAVEFORM   |  |              |        |        |

These waveforms are taken by a scope in AC mode.

# W1(TBC & SYNC GEN) WAVEFORMS FOR PAL








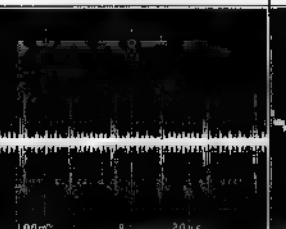
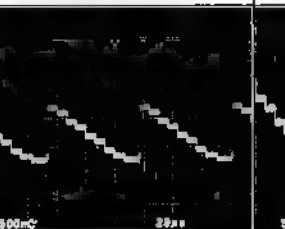
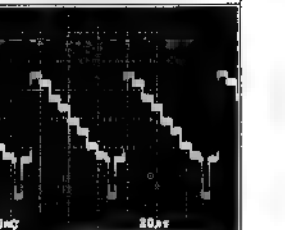

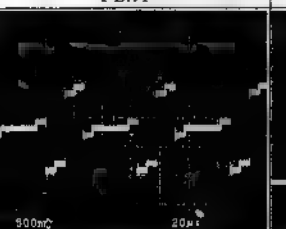
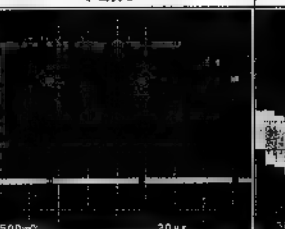
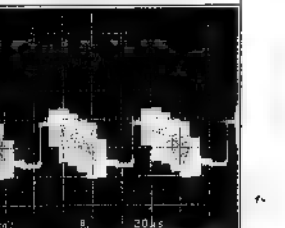

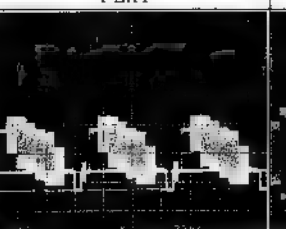
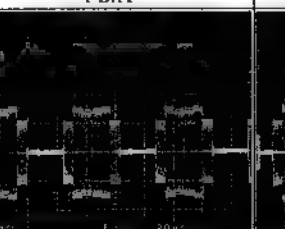
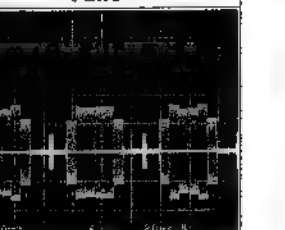
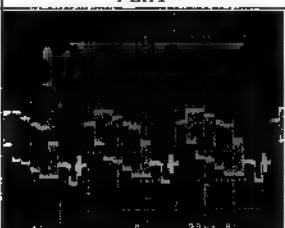
|            |         |         |        |        |
|------------|---------|---------|--------|--------|
| TEST POINT | TP201   | TP202   | TP203  | TP204  |
| VOLTS/DIV. | 200mV   | V       | 500mV  | 100mV  |
| SEC/DIV.   | 20usec  | usec    | 20usec | 20usec |
| MODE       | PLAY    | PLAY    | PLAY   | PLAY   |
| WAVEFORM   |         |         |        |        |
| TEST POINT | TP207   | TP208   | TP210  | TP211  |
| VOLTS/DIV. | 2V      | 500mV   | 2V     | 2V     |
| SEC/DIV.   | 100usec | 100usec | 20usec | 20usec |
| MODE       | PLAY    | PLAY    | PLAY   | PLAY   |
| WAVEFORM   |         |         |        |        |
| TEST POINT | TP212   | TP213   | TP214  | TP215  |
| VOLTS/DIV. | 2V      | 2V      | 2V     | 2V     |
| SEC/DIV.   | 20usec  | 10msec  | 20msec | 20msec |
| MODE       | PLAY    | PLAY    | PLAY   | PLAY   |
| WAVEFORM   |         |         |        |        |
| TEST POINT | TP412   | TP413   | TP416  | TP417  |
| VOLTS/DIV. | 2V      | 2V      | 2V     | 2V     |
| SEC/DIV.   | 20usec  | 20usec  | 20usec | 20usec |
| MODE       | PLAY    | PLAY    | PLAY   | PLAY   |
| WAVEFORM   |         |         |        |        |
| TEST POINT | TP422   | TP423   | TP424  | TP425  |
| VOLTS/DIV. | 2V      | 2V      | 2V     | 2V     |
| SEC/DIV.   | 20usec  | 20usec  | 20usec | 50usec |
| MODE       | PLAY    | PLAY    | PLAY   | PLAY   |
| WAVEFORM   |         |         |        |        |

|            |        |        |
|------------|--------|--------|
| TEST POINT | TP426  | TP427  |
| VOLTS/DIV. | 2V     | 2V     |
| SEC/DIV.   | 20usec | 50usec |
| MODE       | PLAY   | PLAY   |
| WAVEFORM   |        |        |

These waveforms are taken by a scope in AC mode.

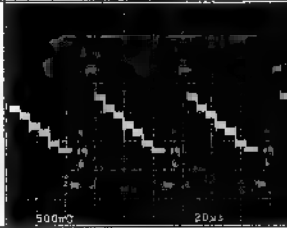
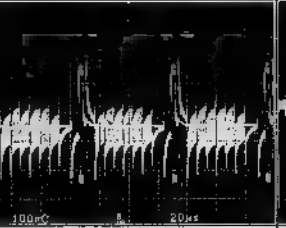
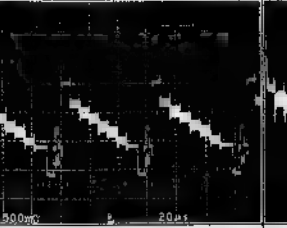
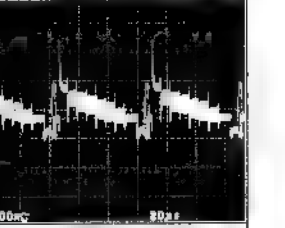
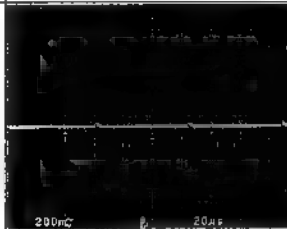
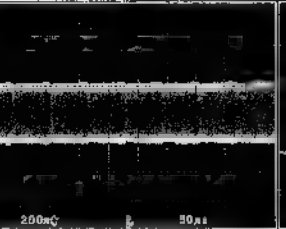
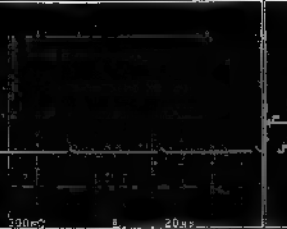
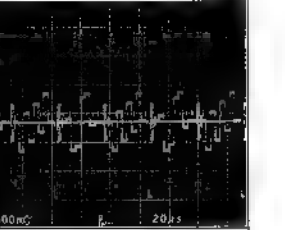
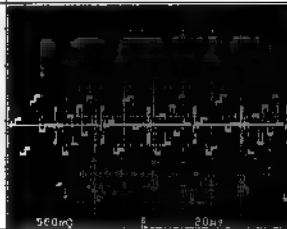
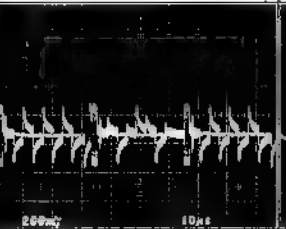

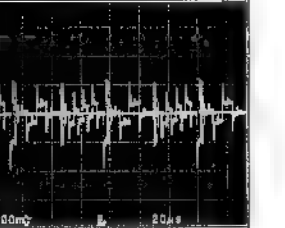
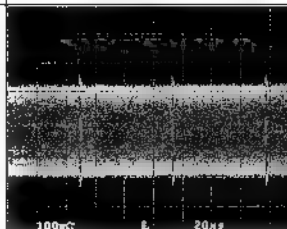
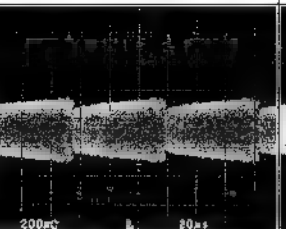
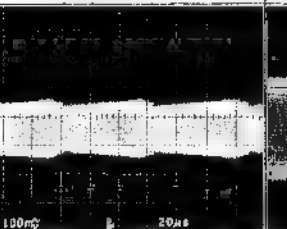
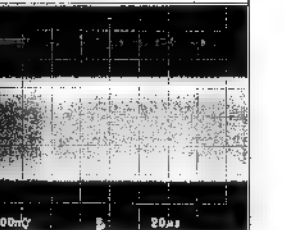
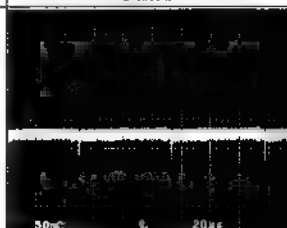

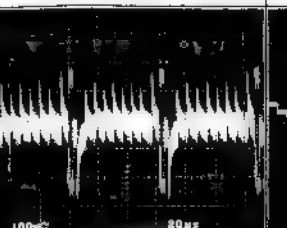
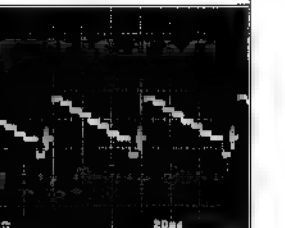


W2(ENCODER) WAVEFORMS FOR PAL

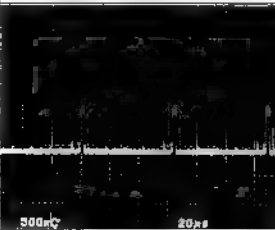
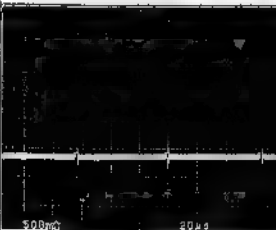
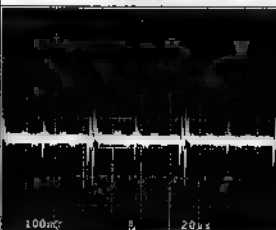

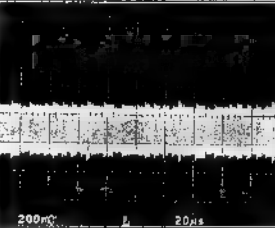
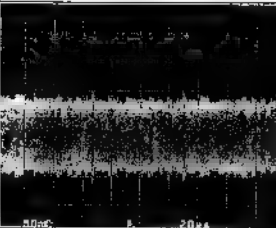
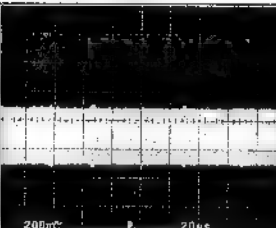
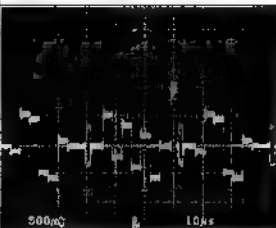
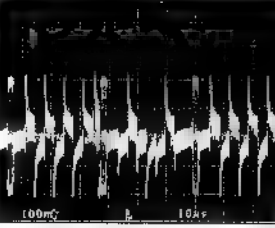
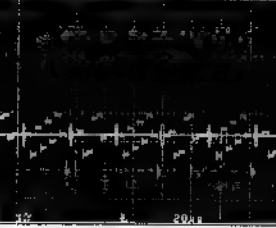
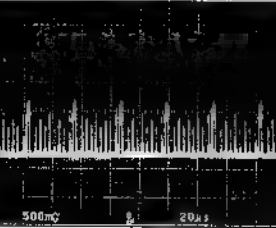
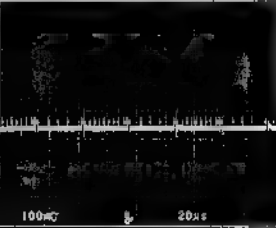

|            |   |   |  |   |
|------------|---|---|--|---|
| TEST POINT | TP1   | TP2   | TP3  | TP4   |
| VOLTS/DIV. | 500mV   | 500mV   | 1V   | 1V  |
| SEC/DIV.   | 20usec  | 10usec  | 20usec   | 10usec  |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY  |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP6   | TP7   | TP201  | TP202   |
| VOLTS/DIV. | 200mV   | 100mV   | 500mV  | 500mV   |
| SEC/DIV.   | 20usec  | 20usec  | 20usec   | 20usec  |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY  |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP203   | TP204   | TP206  | TP501   |
| VOLTS/DIV. | 500mV   | 500mV   | 500mV  | 500mV   |
| SEC/DIV.   | 20usec  | 20usec  | 20usec   | 20usec  |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY  |
| WAVEFORM   |   |   |   |   |
| TEST POINT | TP502   | TP503   | TP505  | TP506   |
| VOLTS/DIV. | 1V  | 1V  | 1V   | 500mV   |
| SEC/DIV.   | 20usec  | 20usec  | 20usec   | 20usec  |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY  |
| WAVEFORM   |  |  |  |  |
| TEST POINT | TP507   |   |  |   |
| VOLTS/DIV. | 1V  |   |  |   |
| SEC/DIV.   | 20usec  |   |  |   |
| MODE       | PLAY  |   |  |   |
| WAVEFORM   |  |   |  |   |

These waveforms are taken by a scope in AC mode.

W3(MOD & DEMOD) WAVEFORMS FOR PAL



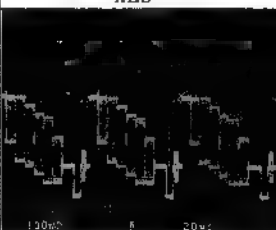
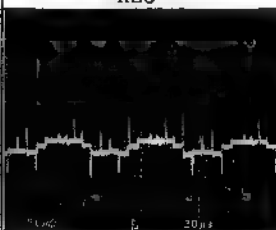
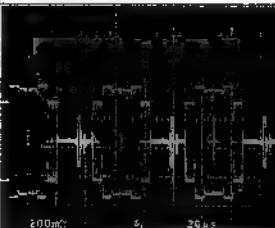
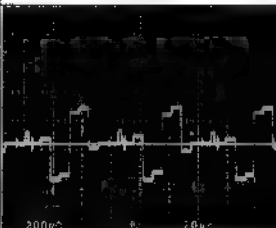
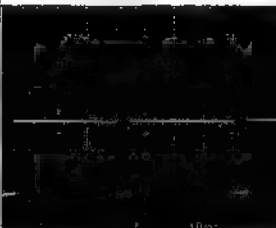
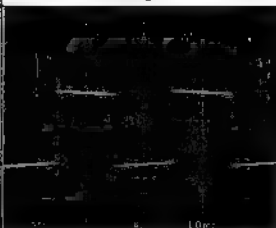
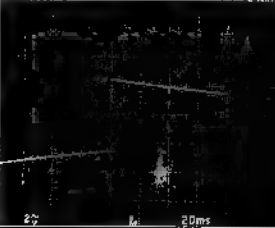
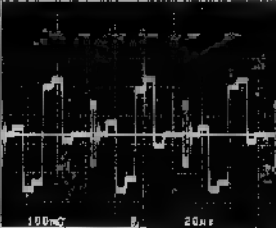
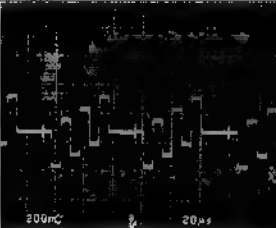
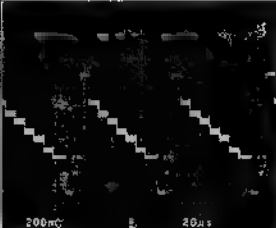

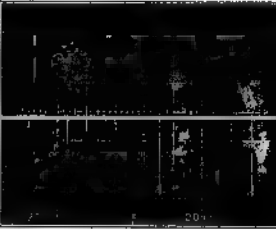
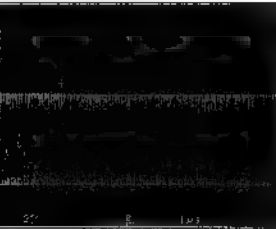
|            |   |   |   |   |
|------------|---|---|---|---|
| TEST POINT | TP1   | TP3   | TP4   | TP5   |
| VOLTS/DIV. | 500mV   | 100mV   | 500mV   | 200mV   |
| SEC/DIV.   | 20usec  | 20usec  | 20usec  | 20usec  |
| MODE       | REC   | REC   | REC   | REC   |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP6   | TP7   | TP8   | TP201   |
| VOLTS/DIV. | 200mV   | 200mV   | 200mV   | 500mV   |
| SEC/DIV.   | 20usec  | 50usec  | 20usec  | 20usec  |
| MODE       | REC   | REC   | REC   | REC   |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP202   | TP203   | TP204   | TP205   |
| VOLTS/DIV. | 500mV   | 200mV   | 200mV   | 200mV   |
| SEC/DIV.   | 20usec  | 10usec  | 20usec  | 20usec  |
| MODE       | REC   | REC   | REC   | REC   |
| WAVEFORM   |   |   |   |   |
| TEST POINT | TP207   | TP301   | TP302   | TP307   |
| VOLTS/DIV. | 100mV   | 200mV   | 100mV   | 100mV   |
| SEC/DIV.   | 20usec  | 10usec  | 20usec  | 20usec  |
| MODE       | REC   | PLAY  | PLAY  | PLAY  |
| WAVEFORM   |  |  |  |  |
| TEST POINT | TP308   | TP309   | TP310   | TP311   |
| VOLTS/DIV. | 50mV  | 1V  | 100mV   | 1V  |
| SEC/DIV.   | 20usec  | 20usec  | 20usec  | 20usec  |
| MODE       | PLAY  | PLAY  | PLAY  | PLAY  |
| WAVEFORM   |  |  |  |  |

These wavefor

|            |   |   |  |  |
|------------|---|---|--|--|
| TEST POINT | TP312   | TP313   | TP316  | TP317  |
| VOLTS/DIV. | 500mV   | 500mV   | 100mV  | 200mV  |
| SEC/DIV.   | 20usec  | 20usec  | 20usec   | 10msec   |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY   |
| WAVEFORM   |    |   |   |   |
| TEST POINT | TP701   | TP702   | TP703  | TP706  |
| VOLTS/DIV. | 200mV   | 50mV  | 200mV  | 500mV  |
| SEC/DIV.   | 20usec  | 20usec  | 20usec   | 10usec   |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY   |
| WAVEFORM   |    |   |   |   |
| TEST POINT | TP707   | TP708   | TP708  | TP710  |
| VOLTS/DIV. | 100mV   | 1V  | 500mV  | 100mV  |
| SEC/DIV.   | 10usec  | 20usec  | 20usec   | 20usec   |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY   |
| WAVEFORM   |   |  |  |  |
| TEST POINT | TP711   |   |  |  |
| VOLTS/DIV. | 50mV  |   |  |  |
| SEC/DIV.   | 20usec  |   |  |  |
| MODE       | PLAY  |   |  |  |
| WAVEFORM   |  |   |  |  |





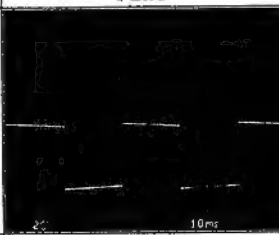


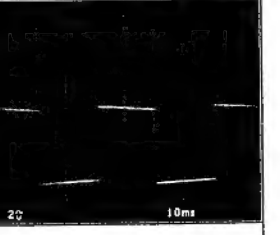
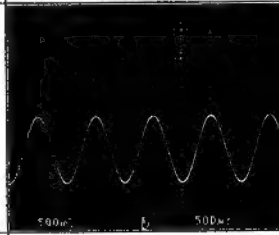
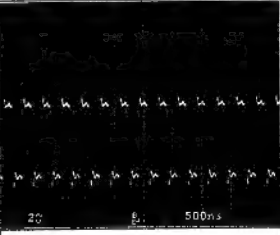
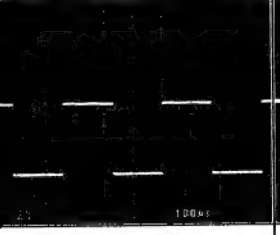
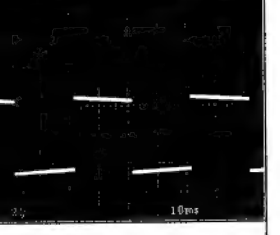
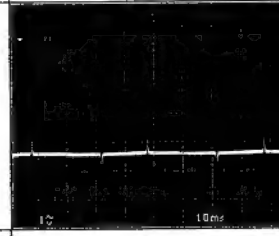
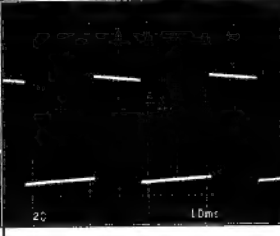
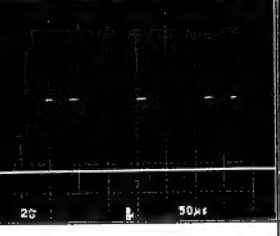

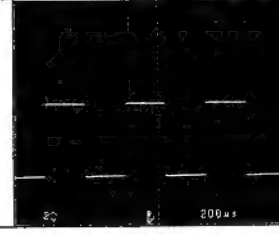

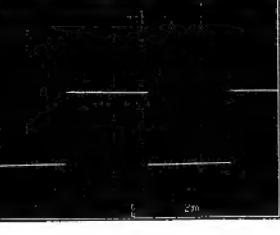

These waveforms are taken by ■ scope in AC mode.

## W4(DECODER & CTCM) WAVEFORMS FOR PAL

|            |   |   |   |  |
|------------|---|---|---|--|
| TEST POINT | TP3   | TP202   | TP203   | TP204  |
| VOLTS/DIV. | 500mV   | 500mV   | 100mV   | 50mV   |
| SEC/DIV.   | 20usec  | 20usec  | 20usec  | 20usec   |
| MODE       | REC   | REC   | REC   | REC  |
| WAVEFORM   |    |    |    |   |
| TEST POINT | TP205   | TP206   | TP401   | TP402  |
| VOLTS/DIV. | 200mV   | 200mV   | 2V  | 2V   |
| SEC/DIV.   | 20usec  | 20usec  | 10msec  | 10msec   |
| MODE       | REC   | REC   | REC   | REC  |
| WAVEFORM   |    |    |    |   |
| TEST POINT | TP403   | TP501   | TP502   | TP504  |
| VOLTS/DIV. | 2V  | 100mV   | 200mV   | 200mV  |
| SEC/DIV.   | 20msec  | 20usec  | 20usec  | 20usec   |
| MODE       | REC   | REC   | REC   | REC  |
| WAVEFORM   |   |   |   |  |
| TEST POINT | TP601   | TP703   | TP704   |  |
| VOLTS/DIV. | 200mV   | 2V  | 2V  |  |
| SEC/DIV.   | 20usec  | 20usec  | 1usec   |  |
| MODE       | REC   | REC   | REC   |  |
| WAVEFORM   |  |  |  |  |

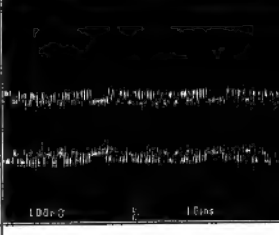
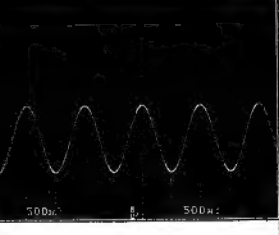
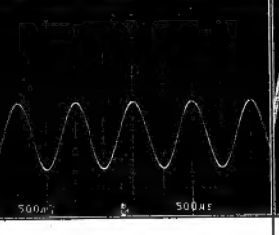
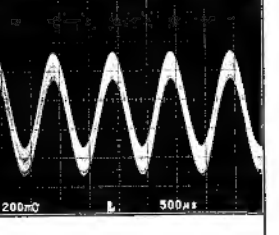
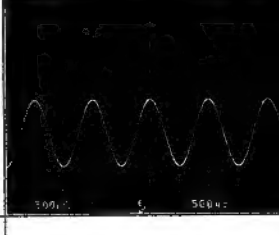
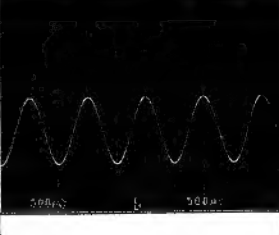
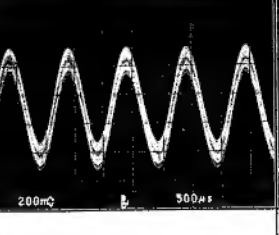
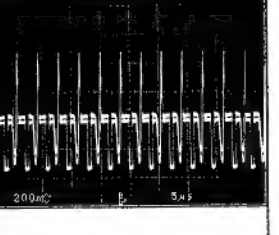
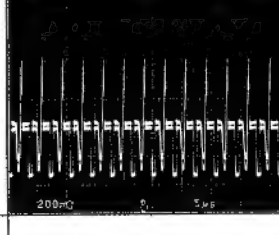
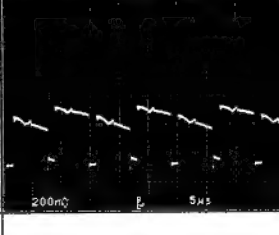
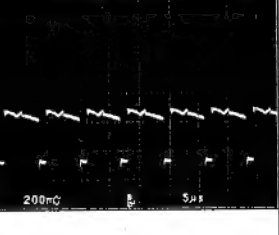

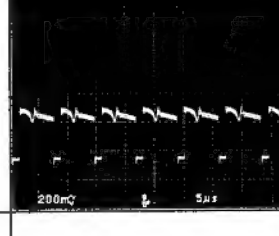
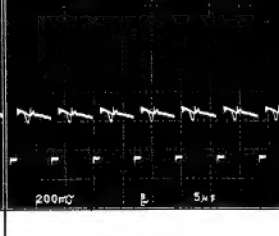
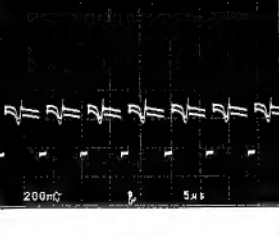
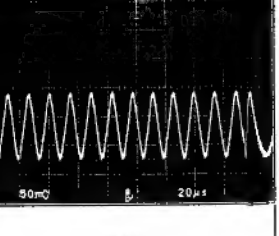
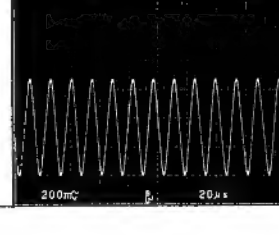
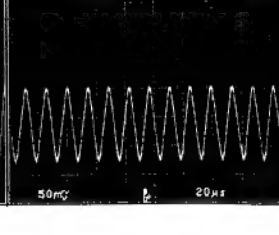
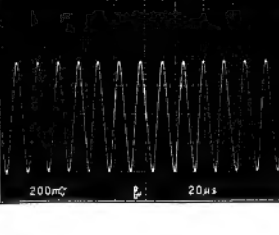
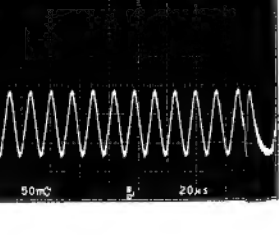
These waveforms are taken by ■ scope in AC mode.

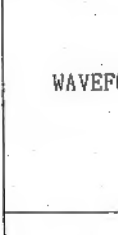
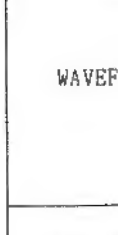
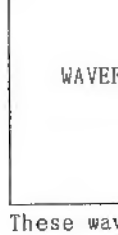
W5(SERVO) WAVEFORMS FOR PAL

|            |   |   |  |   |
|------------|---|---|--|---|
| TEST POINT | TP3   | TP4   | TP5  | TP6   |
| VOLTS/DIV. | 5V  | 5V  | 5V   | 5V  |
| SEC/DIV.   | 10msec  | 10msec  | 10msec   | 10msec  |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY  |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP7   | TP13  | TP15   | TP17  |
| VOLTS/DIV. | 2V  | 2V  | 2V   | 2V  |
| SEC/DIV.   | 10msec  | 20usec  | 10msec   | 10msec  |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY  |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP102   | TP103   | TP104  | TP105   |
| VOLTS/DIV. | 2V  | 2V  | 2V   | 2V  |
| SEC/DIV.   | 20msec  | 500usec   | 100usec  | 10msec  |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY  |
| WAVEFORM   |  |  |  |  |
| TEST POINT | TP109   | TP110   | TP111  | TP114   |
| VOLTS/DIV. | 1V  | 2V  | 2V   | 2V  |
| SEC/DIV.   | 5msec   | 10msec  | 50usec   | 200usec   |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY  |
| WAVEFORM   |  |  |  |  |
| TEST POINT | TP115   | TP118   | TP201  | TP202   |
| VOLTS/DIV. | 2V  | 2V  | 2V   | 2V  |
| SEC/DIV.   | 200usec   | 20msec  | 2msec  | 2msec   |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY  |
| WAVEFORM   |  |  |  |  |

These waveforms are taken by a scope in AC mode.  
5-3-31

W6(AUDIO) WAVEFORMS FOR PAL

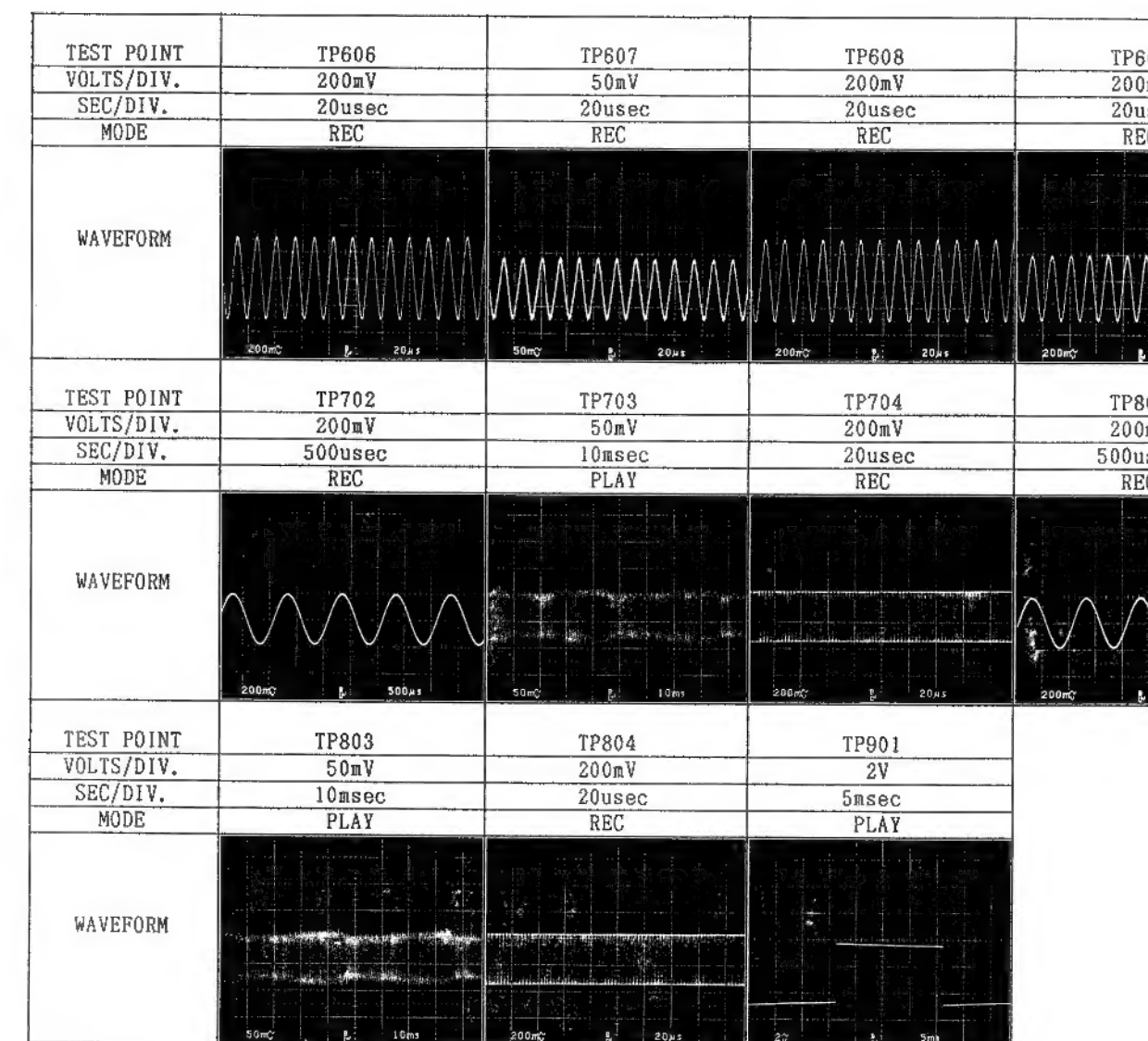
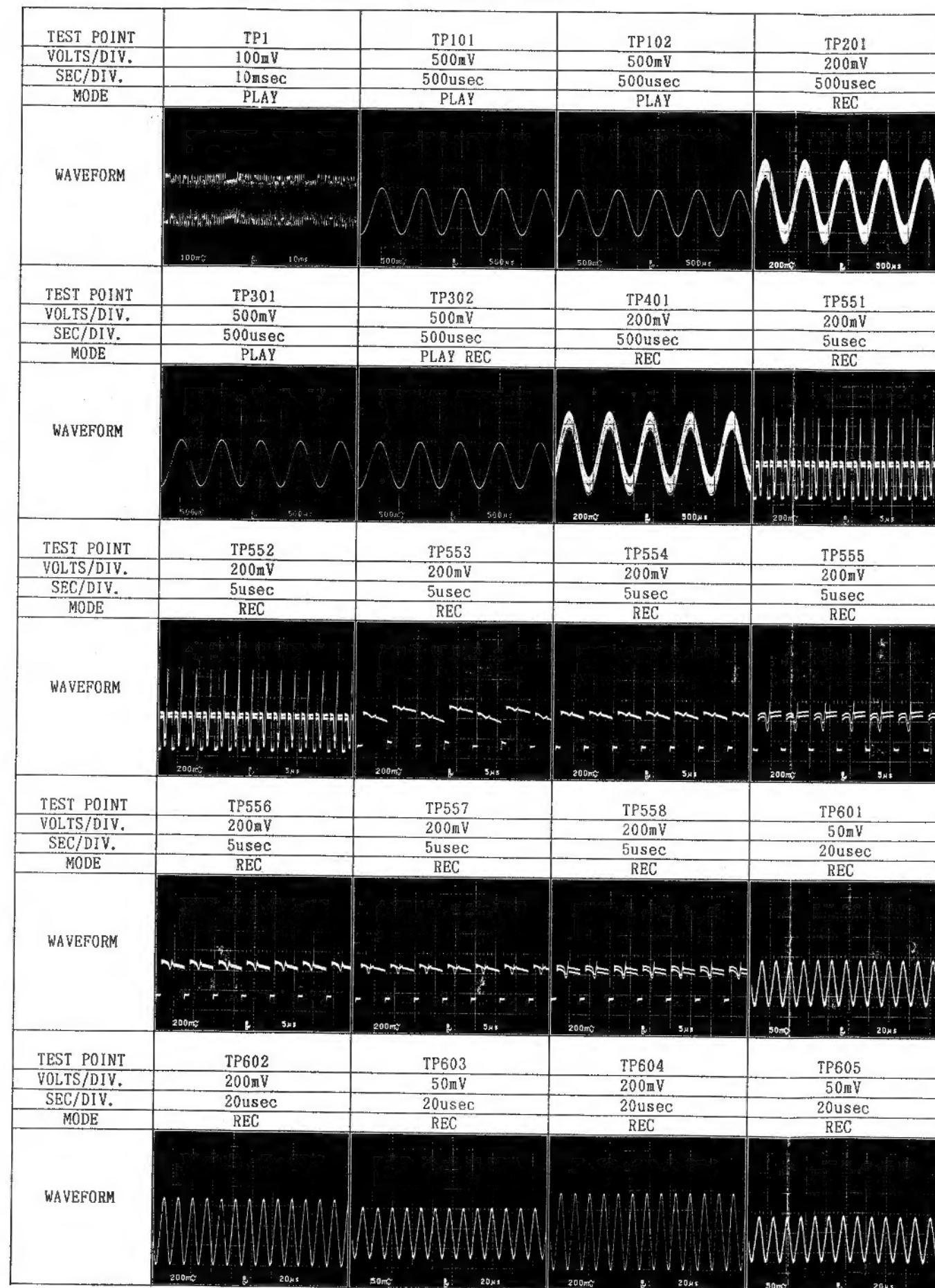
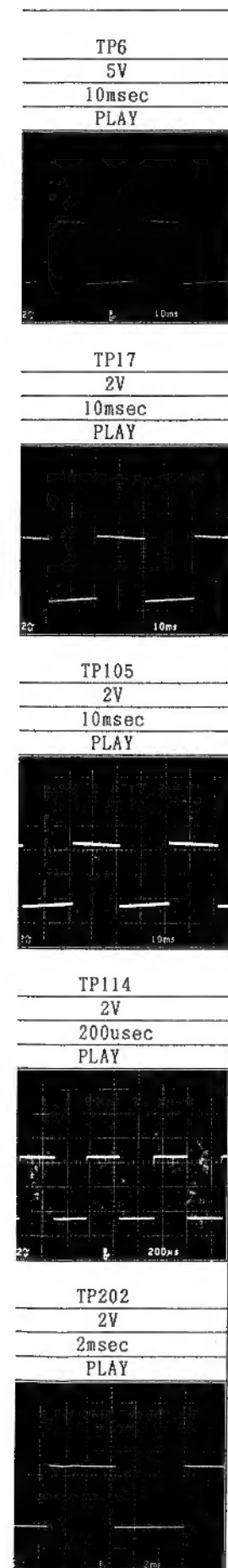
|            |   |   |   |   |
|------------|---|---|---|---|
| TEST POINT | TP1   | TP101   | TP102   | TP201   |
| VOLTS/DIV. | 100mV   | 500mV   | 500mV   | 200mV   |
| SEC/DIV.   | 10msec  | 500usec   | 500usec   | 500usec   |
| MODE       | PLAY  | PLAY  | PLAY  | REC   |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP301   | TP302   | TP401   | TP551   |
| VOLTS/DIV. | 500mV   | 500mV   | 200mV   | 200mV   |
| SEC/DIV.   | 500usec   | 500usec   | 500usec   | 5usec   |
| MODE       | PLAY  | PLAY REC  | REC   | REC   |
| WAVEFORM   |    |    |    |    |
| TEST POINT | TP552   | TP553   | TP554   | TP555   |
| VOLTS/DIV. | 200mV   | 200mV   | 200mV   | 200mV   |
| SEC/DIV.   | 5usec   | 5usec   | 5usec   | 5usec   |
| MODE       | REC   | REC   | REC   | REC   |
| WAVEFORM   |  |  |  |  |
| TEST POINT | TP556   | TP557   | TP558   | TP601   |
| VOLTS/DIV. | 200mV   | 200mV   | 200mV   | 50mV  |
| SEC/DIV.   | 5usec   | 5usec   | 5usec   | 20usec  |
| MODE       | REC   | REC   | REC   | REC   |
| WAVEFORM   |  |  |  |  |
| TEST POINT | TP602   | TP603   | TP604   | TP605   |
| VOLTS/DIV. | 200mV   | 50mV  | 200mV   | 50mV  |
| SEC/DIV.   | 20usec  | 20usec  | 20usec  | 20usec  |
| MODE       | REC   | REC   | REC   | REC   |
| WAVEFORM   |  |  |  |  |

|            |   |
|------------|---|
| TEST POINT | TP1   |
| VOLTS/DIV. | 100mV   |
| SEC/DIV.   | 10msec  |
| MODE       | PLAY  |
| WAVEFORM   |    |
| TEST POINT | TP301   |
| VOLTS/DIV. | 500mV   |
| SEC/DIV.   | 500usec   |
| MODE       | PLAY  |
| WAVEFORM   |    |
| TEST POINT | TP552   |
| VOLTS/DIV. | 200mV   |
| SEC/DIV.   | 5usec   |
| MODE       | REC   |
| WAVEFORM   |  |

These waveforms are taken by a scope in AC mode.

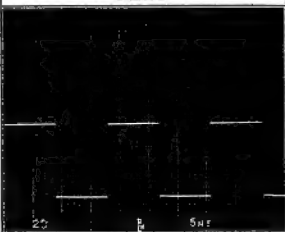
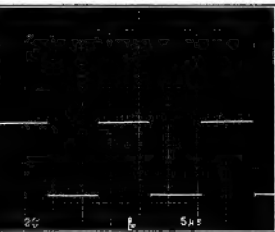
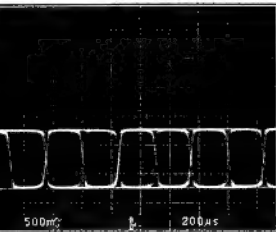
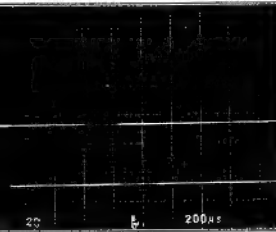
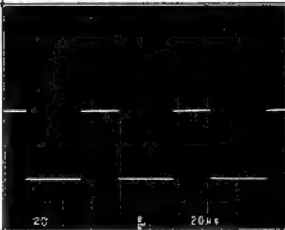
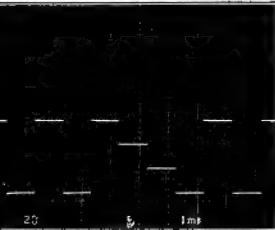


# W6(AUDIO) WAVEFORMS FOR PAL



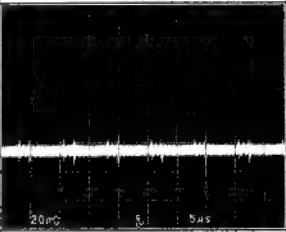
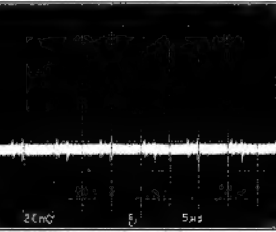
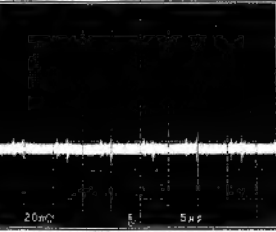
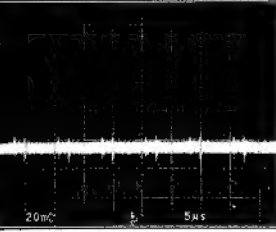
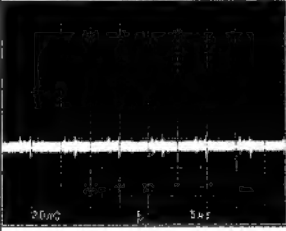
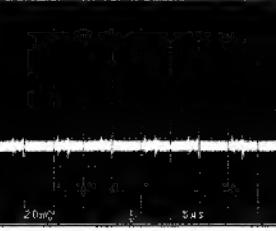
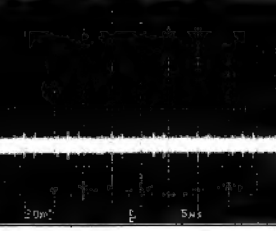
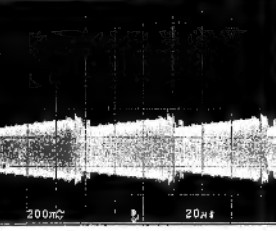
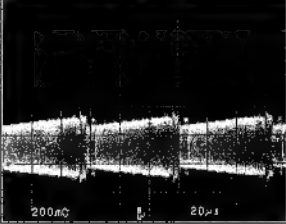
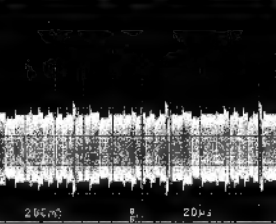
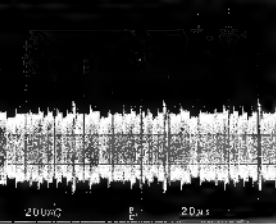
These waveforms are taken by a scope in AC mode.

B2(TC & BB) WAVEFORMS FOR PAL

|            |   |   |  |   |
|------------|---|---|--|---|
| TEST POINT | TP1   | TP2   | TP3  | TP4   |
| VOLTS/DIV. | 2V  | 2V  | 500mV  | 2mV   |
| SEC/DIV.   | 5usec   | 5usec   | 200usec  | 200usec   |
| MODE       | PLAY  | PLAY  | PLAY   | PLAY  |
| WAVEFORM   |  |  |  |  |
| TEST POINT | TP5   | TP6   |  |   |
| VOLTS/DIV. | 2V  | 2V  |  |   |
| SEC/DIV.   | 20usec  | 1msec   |  |   |
| MODE       | PLAY  | PLAY  |  |   |
| WAVEFORM   |  |  |  |   |

These waveforms are taken by a scope in AC mode.

RA & HA WAVEFORMS FOR PAL

|            |  |  |  |   |
|------------|--|--|--|---|
| TEST POINT | TP1  | TP2  | TP3  | TP4   |
| VOLTS/DIV. | 20mV   | 20mV   | 20mV   | 20mV  |
| SEC/DIV.   | 5usec  | 5usec  | 5usec  | 5usec   |
| MODE       | PLAY   | PLAY   | PLAY   | PLAY  |
| WAVEFORM   |   |   |   |  |
| TEST POINT | TP5  | TP6  | TP7  | TP201   |
| VOLTS/DIV. | 20mV   | 20mV   | 20mV   | 20mV  |
| SEC/DIV.   | 5usec  | 5usec  | 5usec  | 5usec   |
| MODE       | PLAY   | PLAY   | PLAY REC   | PLAY REC  |
| WAVEFORM   |   |   |   |  |
| TEST POINT | TP202  | TP203  | TP204  |   |
| VOLTS/DIV. | 200mV  | 200mV  | 200mV  |   |
| SEC/DIV.   | 20usec   | 20usec   | 20usec   |   |
| MODE       | PLAY   | PLAY   | PLAY   |   |
| WAVEFORM   |  |  |  |   |

These waveforms are taken by a scope in AC mode.

RA & HA WAVEFORMS FOR PAL

|            |        |        |          |          |
|------------|--------|--------|----------|----------|
| TEST POINT | TP1    | TP2    | TP3      | TP4      |
| VOLTS/DIV. | 20mV   | 20mV   | 20mV     | 20mV     |
| SEC/DIV.   | 5usec  | 5usec  | 5usec    | 5usec    |
| MODE       | PLAY   | PLAY   | PLAY     | PLAY     |
| WAVEFORM   |        |        |          |          |
| TEST POINT | TP5    | TP6    | TP7      | TP201    |
| VOLTS/DIV. | 20mV   | 20mV   | 20mV     | 20mV     |
| SEC/DIV.   | 5usec  | 5usec  | 5usec    | 5usec    |
| MODE       | PLAY   | PLAY   | PLAY REC | PLAY REC |
| WAVEFORM   |        |        |          |          |
| TEST POINT | TP202  | TP203  | TP204    |          |
| VOLTS/DIV. | 200mV  | 200mV  | 200mV    |          |
| SEC/DIV.   | 20usec | 20usec | 20usec   |          |
| MODE       | PLAY   | PLAY   | PLAY     |          |
| WAVEFORM   |        |        |          |          |

These waveforms are taken by a scope in AC mode.